STIC Search Report
EIC 2600

USPTO

STIC Database Tracking Number: 168176

TO: Brian Le
Location: KNOX 9A61
Art Unit: 2621
Tuesday, October 11, 2005

Case Serial Number: 10/026711

From: Pamela Reynolds
Location: EIC 2600
KNOX 8B54
Phone: 571-272-3505

Pamela.Reynolds@uspto.gov

Search Notes

Dear Brian Le,

Please find attached the search results for 10026711. I used a search strategy based on the data you showed me in the application. I searched the standard Dialog files, IEEE, Inspec, and the internet.

If you would like a re-focus please let me know.

Thank you.

sira
Search and Information
Resources Administration

Set	Items	Description
S1	19139	(TEXT OR ALPHABET OR CHARACTER?? OR LETTERS)(3N)STRING??
S2	3225	S1 AND (FEATURE? OR PARAMETER? OR VALUE? OR CHARACTERISTICS OR SHAPE? OR VISUAL? OR SHAPING)
S3	1495658	LINE OR LINES
S4	163866	PIXEL? OR PEL OR PICTURE()ELEMENT?
S5	15740	S4 AND (LUMINENCE? OR BRIGHT? OR HUE?? OR EQUI()LUMINENCE? OR EQUILUMINENCE? OR INTENSIT?)
S6	3762	SEARCH?(3N)(KEYWORD? OR KEY()WORD? OR WORDS OR WORD)
S7	588	S1 AND (HIGHLIGHT? OR HIGH()LIGHT? OR BOX OR THUMBNAIL OR - EXPAND? OR ENLARG?)
S8	66	FLIP(3N)CARD??
S9	71738	(DETERMINE? OR DISCERN? OR DETECT? OR DISTINGUISH? OR IDEN- TIF?)(3N)IMAGE??
S10	377	S1(3N)(REGIONS OR REGION OR RANGE? OR ZONES OR ZONE OR BOU- NDARY OR BOUNDARIES OR EDGES OR EDGE)
S11	81	(EMBED? OR INSIDE OR INCORP?)(3N)SCENE??
S12	140314	S3 AND (HORIZONTAL? OR VERTICAL? OR XY)
S13	6	EXTRACT?(3N)S2 AND FIRST AND SECOND AND (COMPAR? OR MATCH? OR SIMILAR OR LIKENESS)
S14	21021	S3(3N)(WIDTH? OR SIZE?)
S15	770	AU=(NAGASAKA, A? OR MIYATAKE, T? OR NAGASAKA A? OR MIYATAKE T?)
S16	201987	IC=G06K?
S17	0	S6 AND S11
S18	0	S6 AND S5
S19	43	S6 AND S2
S20	0	S19 AND S3
S21	0	S19 AND S4
S22	1	S15 AND S5
S23	7	S15 AND S2
S24	7	S23 NOT (S13 OR S22)
S25	1	S8 AND S9
S26	0	S25 NOT (S23 OR S13 OR S22)
S27	54	S2 AND S3 AND S4
S28	0	S27 AND S11
S29	46	S27 AND S16
S30	0	S29 AND S6
S31	3	S29 AND AD=20010322:20051011/PR
S32	43	S29 NOT S31
S33	0	S32 AND (LUMINENCE? OR BRIGHT? OR HUE?? OR EQUI()LUMINENCE? OR EQUILUMINENCE? OR INTENSIT?)
S34	1	S32 AND S9
S35	1	S34 NOT (S23 OR S13 OR S22)
S36	610	S5 AND (S12 OR S14)
S37	0	S36 AND (S2 OR S7 OR S10)
S38	0	S36 AND S1
S39	35	S36 AND S16
S40	4	S39 AND S9
S41	4	S40 NOT (S34 OR S23 OR S13 OR S22)
S42	117	S1 AND S14
S43	25	S42 AND RECOGN?
S44	6	S43 AND (KEYWORD? OR KEY()WORD? OR WORDS OR WORD)
S45	6	S44 NOT (S40 OR S34 OR S23 OR S13 OR S22)

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S46      ·   0   S45 AND AD=20010322:20051011/PR
S47          0   S1 AND S5 AND S6
S48          0   S1 AND S11
S49          0   S5 AND S6
```

13/3,K/1   (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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05949777   **Image available**
COLLATION DEVICE FOR CHARACTER STRING AND DATA BASE SYSTEM

PUB. NO.:   10-232877 [JP 10232877 A]
PUBLISHED: September 02, 1998 (19980902)
INVENTOR(s): MOTEGI TOSHIO
APPLICANT(s): DAINIPPON PRINTING CO LTD [000289] (A Japanese Company or
             Corporation), JP (Japan)
APPL. NO.:   09-049852 [JP 9749852]
FILED: February 18, 1997 (19970218)

ABSTRACT
...SOLUTION: When a key word 'hypertension' at the time of retrieval is
inputted as a **first** character string, it is converted into a synonym
'KOUKETSUATSU(hypertension)' by a thesaurus dictionary 15...

... meantime, one key word 'blood pressure is high' prepared on a data base
side is **extracted** as a **second character string** and an evaluated
value for indicating the similarity degree of the **first** character string
'KOUKETSUATSU' and the **second** character string 'blood pressure is high'
by a numerical value is obtained in a similarity evaluation part 30. The
evaluated value is **compared** with a threshold value set in a threshold
value setting part 40 in a judgement...

...evaluated value is more than the threshold value, the judged result that
both key words **match** is originated and data related to the key word
'blood pressure is high' are presented...

 13/3,K/2   (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

04792456   **Image available**
DICTIONARY PREPARATION SUPPORTING METHOD

PUB. NO.:   07-085056 [JP 7085056 A]
PUBLISHED: March 31, 1995 (19950331)
INVENTOR(s): HIRAKAWA HIDEKI
             KUMANO AKIRA
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
             (Japan)
APPL. NO.:   05-232649 [JP 93232649]
FILED: September 20, 1993 (19930920)

ABSTRACT
... dictionary preparation by performing editing while referring to an
original sentence/translated sentence information by **extracting**
character string candidates for knowledge registration from an original
sentence character string and outputting the original sentence...

...CONSTITUTION: A **first** language sentence extraction part 3 outputs a
prescribed processing unit such as a Japanese sentence or phrase from a
first language document storing Japanese sentences together with position
information. The processing unit is recognized by...

...phrases based on punctuation mark or line shift code information. As the output of the **first** language sentence extraction part 3, a sentence number and a start position are outputted as the position information. A **second** language sentence extraction part 4 recognizes the processing units such as sentences or phrases concerning...

... the position information of correspondent data of the extracted sentence. The knowledge registered character string **matched** with a **feature** designated by an **extracted character string feature** designation part 5 is extracted. Based on these output data, a correspondent evaluation selection part 8 selects a correspondent sentence in the **second** language.

13/3,K/3   (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

01394484   **Image available**
CHARACTER READER

PUB. NO.:   59-106084 [JP 59106084 A]
PUBLISHED: June 19, 1984 (19840619)
INVENTOR(s):   KOBAYASHI KEIJI
                YAMAMOTO MASATAKA
APPLICANT(s):   COMPUT BASIC MACH TECHNOL RES ASSOC [470899] (A Japanese
                Company or Corporation), JP (Japan)
APPL. NO.:   57-216219 [JP 82216219]
FILED: December 09, 1982 (19821209)
JOURNAL: ·   Section: P, Section No. 308, Vol. 08, No. 228, Pg. 5, October
                19, 1984 (19841019)

                          ABSTRACT
...CONSTITUTION: A character-string of a business form 2 is scanned by a **feature extracting** means 1 of a character reader, and a feature of the **character - string** is **extracted** and provided to the **first** recognition means 3. By this recognition means 3, an input character is **compared** with a reference pattern of a recognition dictionary 4 which stores a feature of a...
... of a recognition object character, and a proposed character is derived and provided to the **second** recognition means 5. By this recognition means 5, a correct character-string is recognized by...

13/3,K/4   (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

011809578   **Image available**
WPI Acc No: 1998-226488/199820
XRPX Acc No: N98-179972
  Character recognition apparatus for identifying Japanese and English
  characters on advertising document and card - includes character
  recognition unit which identifies character code corresponding to
  character image
Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 10069522   A   19980310 JP 96227066   A   19960828 199820 B

Priority Applications (No Type Date): JP 96227066 A 19960828
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 10069522   A   16 G06K-009/34

...Abstract (Basic): The apparatus has a **character   string   extraction**
   unit which **extracts   character   string** image and position of
   rectangle which bounds the character string image, from a document
   image...

...image of each character component of the character string, from the
   character string image. The **first** and **second** length values of
   sides, which are respectively parallel and perpendicular to the
   character string image of each component image are determined. Based on
   the **first** and **second** length values of the character component
   images, a character string state estimation unit (104) classifies...

...image. A character image cutout unit is provided which joints all the
   character component images **first** and divides or cuts it into several
   character images bounded by rectangle with sides satisfying the
   standard length. The characteristic of the character images is
   compared with the standard characteristic stored in the recognition
   dictionary. A character recognition unit is provided...

 13/3,K/5   (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

010932693   **Image available**
WPI Acc No: 1996-429643/199643
XRPX Acc No: N96-362008
   **Character recognition method for stabilising post treatment like
   character string collation - involves precision of candidate category
   using** second **candidate precision calculating units based on calculation
   result obtained from** first **candidate precision calculation unit**
Patent Assignee: NTT DATA TSUSHIN KK (NITE)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 8212300   A   19960820 JP 9520815   A   19950208 199643 B

Priority Applications (No Type Date): JP 9520815 A 19950208
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 8212300   A   6 G06K-009/62

... **involves precision of candidate category using** second **candidate
  precision calculating units based on calculation result** obtained from
  first **candidate precision calculation unit**

...Abstract (Basic): The method involves using character recognition device
   which outputs the character category group. The **comparison** of the
   feature vector which indicates the feature of the character pattern to
   be recognized...

...An application distinction coefficient **value** is **extracted** from a
   coefficient memory unit (5) which stores the distinction coefficient
   value. A **first** candidate precision calculation unit (6) obtains the

product of the differential value data sequence and the gap value
sequence and calculates the precision of the candidate category. A
second candidate precision calculation unit (7) calculates the
precision of the candidate category, based on the calculation result of
the **first** candidate precision calculation unit...
...Title Terms: **SECOND** ;

13/3,K/6 **(Item 3 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

008246618 **Image available**
WPI Acc No: 1990-133619/199018
XRPX Acc No: N90-103585
Searching for strings within given distance of reference - using array of
cells interconnected to provide string comparisons **covering range of**
unitary operations
Patent Assignee: NEC CORP (NIDE)
Inventor: MOTOMURA M
Number of Countries: 004 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 366115	A	19900502	EP 89119841	A	19891025	199018	B
US 5377349	A	19941227	US 89426636	A	19891025	199506	
			US 92958467	A	19921008		
EP 366115	B1	19970108	EP 89119841	A	19891025	199707	
DE 68927625	E	19970220	DE 627625	A	19891025	199713	
			EP 89119841	A	19891025		

Priority Applications (No Type Date): JP 88269746 A 19881025
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5377349	A		18	G06F-007/06	Cont of application US 89426636
EP 366115	B1	E	22	G06F-007/02	

Designated States (Regional): DE FR GB

DE 68927625	E			G06F-007/02	Based on patent EP 366115

... **using array of cells interconnected to provide string** comparisons
covering range of unitary operations

...Abstract (Basic): collated is coincident to one character of the
reference string. Also there is a string **comparator** which consists of
cells arranged in an M by N matrix in which each cell...

...The **first** row cells are connected to the input device to receive the
coincidence signal. Data is...

...USE/ADVANTAGE - Collation system. Evenly **extracts** all **character**
strings of arbitrary length within predetermined distance of reference
string...
...Abstract (Equivalent): coincident to a corresponding constituent
character to said reference character string; and a character string
comparator (100) composed of cells (130) $f_{i,j}$ with i = 1 to M and j =
1...

...to N-1, being coupled to a rightward adjacent cell $f_{i,j+1}$ through a
first transfer means (140) which operates to transfer data stored in
self cell $f_{i,j}$ to...

...to N, being also coupled to a downward adjacent cell $f_{i+1,j}$ through a **second** transfer means (160) which operates to transfer data stored in the cell $f_{i,j}$ to...

...Abstract (Equivalent): to be collated is coincident to one character of the reference string, and a string **comparator** composed of cells arranged in M columns and in N rows (where M and N...

...1 to N-1) is coupled to a rightward adjacent cell f_{ij+1} through a **first** transfer circuit and also coupled to a downwardly adjacent cell f_{i+1j} through a **second** transfer circuit. Each cell f_{ij} is further coupled to a rightward adjacent cell f_{i+1j}...

...rightward adjacent cell f_{i+1j+1} through an automatic setting circuit. The cells in a **first** row are coupled to the input device so as to receive the coincidence signal...

...The **first** transfer circuit operates to transfer data stored in each cell f_{ij} to the cell f_{ij}...

...reference character is applied to the input device as a character to be collated. The **second** transfer circuit operates to transfer data stored in each cell f_{ij} to the cell f_{ij}...

...aid of language translation, address filtering of electronic mail, etc. Provides system capable of evenly **extracting** all **character strings** of arbitrary lengths within a predetermined distance from a reference string...

...Title Terms: **COMPARE ;**

?

012220863   **Image available**
WPI Acc No: 1999-026969/199903
XRPX Acc No: N99-020803
   Digital panoramic camera - shoots each frame of sequence with certain
   angular field of at thirty frames per second with wide view still image
   having apparent field of angular view that is greater than that of image
   of each frame
Patent Assignee: HITACHI LTD (HITA)
Inventor: EJIRI M; **MIYATAKE T** ; **NAGASAKA A**
Number of Countries: 027 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 884897	A1	19981216	EP 98110469	A	19980608	199903	B
JP 11004398	A	19990106	JP 97153303	A	19970611	199911	
US 6466262	B1	20021015	US 9893782	A	19980609	200271	

Priority Applications (No Type Date): JP 97153303 A 19970611
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 884897	A1	E	22	H04N-005/232	

   Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
   LI LT LU LV MC MK NL PT RO SE SI

Patent No	Kind	Lan	Pg	Main IPC	
JP 11004398	A		11	H04N-005/765	
US 6466262	B1			H04N-007/00	

...Inventor: **MIYATAKE T** ...

... **NAGASAKA A**

...Abstract (Basic): device uses global pattern matching between the
   consecutive images by taking the projections of the **intensity** values
   of the **pixels** in the horizontal and vertical directions, the liquid
   crystal monitor sequentially displays wide view image...
?

24/3,K/1   (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

07410923   **Image available**
METHOD AND DEVICE FOR RETRIEVING CHARACTER IN VIDEO

PUB. NO.:   2002-279433 [JP 2002279433 A]
PUBLISHED: September 27, 2002 (20020927)
INVENTOR(s): **NAGASAKA AKIO**
              MIYATAKE TAKAFUMI
APPLICANT(s): HITACHI LTD
APPL. NO.:   2001-082012 [JP 200182012]
FILED: March 22, 2001 (20010322)

INVENTOR(s): **NAGASAKA AKIO**
              MIYATAKE TAKAFUMI

                        ABSTRACT
... To provide a method and a device for retrieving characters in videos,
enabling detection of **character   strings** which are difficult to detect
by prior art, such as captions and flips, and capable of retrieving the
detected **character   strings** in a common framework independently of
languages or fonts.
SOLUTION: By inputting videos and detecting a character region from the
frame image of the inputted video, the image **features** of the character
region are extracted. On the other hand, the character sting inputted by...

... character input means, which is to be detected, is represented as
images, and the image **features** of the **character   string** image are
extracted. By checking the obtained image **features** of the character
region and those of the **character   string** image for matching degree the
character region including the **character   string** , for the matching has
been obtained, is outputted.

 24/3,K/2   (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

04821967   **Image available**
METHOD AND DEVICE FOR RETRIEVING VIDEO

PUB. NO.:   07-114567 [JP 7114567 A]
PUBLISHED: May 02, 1995 (19950502)
INVENTOR(s): **MIYATAKE TAKAFUMI**
              SUMINO SHIGEO
              TANIGUCHI KATSUMI
              NAGASAKA AKIO
              UBUSAWA MITSURU
              UEDA HIROTADA
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP
              (Japan)
APPL. NO.:   05-262102 [JP 93262102]
FILED: October 20, 1993 (19931020)

INVENTOR(s): **MIYATAKE TAKAFUMI**
              SUMINO SHIGEO

TANIGUCHI KATSUMI
NAGASAKA AKIO
UBUSAWA MITSURU
UEDA HIROTADA

ABSTRACT
PURPOSE: To perform video retrieval fast like text retrieval by performing collation based upon a **character** **string** derived from the **feature** quantity of video for the video retrieval...

...after it and extracts a frame image 28 at the time of the detection. A **character** **string** conversion part 21 converts the frame image 28 into a **character** code **string** 29 on which its **feature** is reflected. Then a video name generation part 22 stores a constant-length shift register with the **character** code **string** sent from the **character** **string** conversion part 21. The **character** code **string** stored therein corresponds to the frame image string constituting the video and is outputted as...

24/3,K/3   **(Item 1 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
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015837345   **Image available**
WPI Acc No: 2003-899549/200382
Related WPI Acc No: 1998-506100; 2000-170623; 2001-595634; 2001-656043;
  2003-247151; 2004-820577
XRPX Acc No: N03-717992
  **Voice index information recordable medium for multimedia information
  processing systems, has video index information with feature data of
  representative video frame images and information data of time length
  between frames**
Patent Assignee: IKEZAWA M (IKEZ-I); MIYATAKE T (MIYA-I); NAGASAKA A
  (NAGA-I); SUMINO S (SUMI-I); TANIGUCHI K (TANI-I); UEDA H (UEDA-I);
  HITACHI LTD (HITA)
Inventor: IKEZAWA M; **MIYATAKE T** ; **NAGASAKA A** ; SUMINO S; TANIGUCHI K;
  UEDA H
Number of Countries: 001 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20030192058	A1	20031009	US 94323866	A	19941017	200382	B
			US 97908072	A	19970811		
			US 99453585	A	19991207		
			US 2001771562	A	20010130		
			US 2002164013	A	20020607		
			US 2003411314	A	20030411		
US 6766057	B2	20040720	US 94323866	A	19941017	200448	
			US 97908072	A	19970811		
			US 99453585	A	19991207		
			US 2001771562	A	20010130		
			US 2002164013	A	20020607		
			US 2003411314	A	20030411		

Priority Applications (No Type Date): JP 93262102 A 19931020
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030192058	A1		17	H04N-007/173	Cont of application US 94323866
					Cont of application US 97908072
					Cont of application US 99453585
					Cont of application US 2001771562

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                                  Cont of application US 2002164013
                                  Cont of patent US 5805746
                                  Cont of patent US 6021231
                                  Cont of patent US 6192151
                                  Cont of patent US 6424744
                                  Cont of patent US 6567550
US 6766057    B2      G06K-009/46  Cont of application US 94323866
                                  Cont of application US 97908072
                                  Cont of application US 99453585
                                  Cont of application US 2001771562
                                  Cont of application US 2002164013
                                  Cont of patent US 5805746
                                  Cont of patent US 6021231
                                  Cont of patent US 6192151
                                  Cont of patent US 6424744
                                  Cont of patent US 6567550
```

Voice index information recordable medium for multimedia information processing systems, has video index information with feature data of representative video frame images and information data of time length between frames
...Inventor: **MIYATAKE T** ...

... **NAGASAKA A**

Abstract (Basic):
...   . The medium has video index information data with **feature** data of representative frame images of a video and information data relating to a time length between representative frames. The **feature** data and data relating to the time length is stringed together. The **feature** data is a **character** code **string** or color.
...   medium enables video retrieval to be performed at high speed as in text retrieval. The **feature** data is a simple one calculated from a digitized image or time length between frames, thereby enabling the **feature** to be calculated in real time video reproduction. The medium enables implementation of real time...

... **Character   string** converter (21...

... **Character   string** matcher (26
...Title Terms: **FEATURE ;**

 24/3,K/4   (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015186618   **Image available**
WPI Acc No: 2003-247151/200324
Related WPI Acc No: 1998-506100; 2000-170623; 2001-595634; 2001-656043;
  2003-899549; 2004-820577
XRPX Acc No: N03-196397
  Video retrieval method in multimedia information processing system, e.g. for indexing, involves representing input video by character code string formed by stringing the character codes assigned to each frame images
Patent Assignee: IKEZAWA M (IKEZ-I); MIYATAKE T (MIYA-I); NAGASAKA A
  (NAGA-I); SUMINO S (SUMI-I); TANIGUCHI K (TANI-I); UEDA H (UEDA-I);
  HITACHI LTD (HITA)
Inventor: IKEZAWA M; **MIYATAKE T ;   NAGASAKA A** ; SUMINO S; TANIGUCHI K;

UEDA H
Number of Countries: 001   Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020150310	A1	20021017	US 94323866	A	19941017	200324	B
			US 97908072	A	19970811		
			US 99453585	A	19991207		
			US 2001771562	A	20010130		
			US 2002164013	A	20020607		
US 6567550	B2	20030520	US 94323866	A	19941017	200336	
			US 97908072	A	19970811		
			US 99453585	A	19991207		
			US 2001771562	A	20010130		
			US 2002164013	A	20020607		

Priority Applications (No Type Date): JP 93262102 A 19931020
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020150310	A1		17	G06K-009/46	Cont of application US 94323866
					Cont of application US 97908072
					Cont of application US 99453585
					Cont of application US 2001771562
					Cont of patent US 5805746
					Cont of patent US 6021231
					Cont of patent US 6192151
					Cont of patent US 6424744
US 6567550	B2			G06K-009/46	Cont of application US 94323866
					Cont of application US 97908072
					Cont of application US 99453585
					Cont of application US 2001771562
					Cont of patent US 5805746
					Cont of patent US 6021231
					Cont of patent US 6192151
					Cont of patent US 6424744

...   method in multimedia information processing system, e.g. for indexing,
  involves representing input video by character **code** string **formed by**
  stringing the character codes assigned to each frame images
...Inventor: **MIYATAKE T** ...

... **NAGASAKA A**

Abstract (Basic):
...   are strung together to form a code string. The input video is
  represented by the **character** code **string** .
...   Video retrieval is performed at high-speed. **Features** can be
  calculated in real-time from digitized image or time length between
  frames. Code...

...required for code assignment is short. By assigning existing character
  codes, general purpose mechanism for **character** **string** matching can
  be used, thus it becomes unnecessary to newly develop a special
  matching mechanism...

 24/3,K/5   (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015067582   **Image available**

WPI Acc No: 2003-128098/200312
XRPX Acc No: N03-101700
  Character image search method in photograph, involves comparing visual
  **characteristics of character region in image and character image of
  interest, to determine similarity and corresponding character region is
  output**
Patent Assignee: HITACHI LTD (HITA   ); MIYATAKE T (MIYA-I); NAGASAKA A
  (NAGA-I)
Inventor: **MIYATAKE T ; NAGASAKA A**
Number of Countries: 002 Number of Patents: 002
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 20020136458 A1   20020926 US 200126711   A   20011227 200312 B
JP 2002279433 A   20020927 JP 200182012   A   20010322 200312

Priority Applications (No Type Date): JP 200182012 A 20010322
Patent Details:
Patent No   Kind Lan Pg   Main IPC   Filing Notes
US 20020136458 A1   22 G06K-009/62
JP 2002279433 A   14 G06T-007/40
  Character image search method in photograph, involves comparing visual
  characteristics of character region in image and character image of
  interest, to determine similarity and corresponding...
Inventor: **MIYATAKE T ...**

... **NAGASAKA A**

Abstract (Basic):
...   ' The **visual** characteristic of the character region detected in
  an image is extracted. Another **visual** characteristic is extracted
  from a character image of interest. The extracted **visual**
  characteristics are .compared to determine the level of similarity. The
  character region corresponding to the determined...
...   Any desired **character** **strings** can be searched easily and
  quickly in a common framework, by matching the **character** **strings**
  instead of language and without character recognition...
...Title Terms: **VISUAL** ;·

 24/3,K/6   (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012998771   **Image available**
WPI Acc No: 2000-170623/200015
Related WPI Acc No: 1998-506100; 2001-595634; 2001-656043; 2003-247151;
  2003-899549; 2004-820577
XRPX Acc No: N00-126853
  **Broadcast video retrieval method in multimedia information processing
  system**
Patent Assignee: HITACHI LTD (HITA   )
Inventor: IKEZAWA M; **MIYATAKE T ; NAGASAKA A ;** SUMINO S; TANIGUCHI K;
  UEDA H
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 6021231   A   20000201 US 94323866   A   19941017 200015 B
                             US 97908072   A   19970811

Priority Applications (No Type Date): JP 93262102 A 19931020

Patent Details:
Patent No   Kind Lan Pg   Main IPC   Filing Notes
US 6021231   A   20 G06K-009/54   Cont of application US 94323866
                                       Cont of patent US 5805746

...Inventor: **MIYATAKE T** ...

... **NAGASAKA A**

Abstract (Basic):
...   A **feature** of the frame image (27) is calculated and code
    string (29) is generated by replacing the calculated **feature** with
    corresponding code. A target video is input, for which frame image is
    extracted, **feature** is calculated and the code string is generated.
    Matching is done with inquiry and target...
...   images include head frame images located at scene changes or
    inputted at fixed interval. The **feature** is calculated from a
    digitized image and frame string formed by time length or scene change.
    The codes are assigned for the **feature** on the basis of range the
    feature belongs to. INDEPENDENT CLAIMS are also included for the
    following...

...The matching is based on **character** **strings** obtained from **features**
    of all the video, hence video retrieval is performed at high speed as
    in text retrieval. The **feature** is calculated from a digitized image
    in real time of video reproduction and stored in...

...time of video reproduction. The user specify inquiry video by a mouse so
    converting the **feature** of the pattern to keyboard is unnecessary. The
    know-how of video production of experts is acquired by extracting a
    character **string** pattern with high occurrence frequency on the basis
    of index of the target video. The...

 24/3,K/7   (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012089189   **Image available**
WPI Acc No: 1998-506100/199843
Related WPI Acc No: 2000-170623; 2001-595634; 2001-656043; 2003-247151;
  2003-899549; 2004-820577
XRPX Acc No: N98-394555
  **Computer based video retrieval method for multimedia information
  processing system - involves matching two code strings registered
  corresponding to representative frame image, for conductions video
  retrieval**
Patent Assignee: HITACHI LTD (HITA)
Inventor: IKEZAWA M; **MIYATAKE T ; NAGASAKA A** ; SUMINO S; TANIGUCHI K;
  UEDA H
Number of Countries: 002 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5805746	A	19980908	US 94323866	A	19941017	199843	B
JP 3340532	B2	20021105	JP 93262102	A	19931020	200275	

Priority Applications (No Type Date): JP 93262102 A 19931020
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5805746	A		16	G06K-009/54	
JP 3340532	B2		10	G06F-017/30	Previous Publ. patent JP 7114567

...Inventor: **MIYATAKE T** ...

... **NAGASAKA A**

...Abstract (Basic): involves dividing a representation frame image (36)
specified by an user, into several portions. A **feature** (37) is
calculated on basis of average **values** of colour elements (RGB) for
each portion to obtain a **feature** vector. The calculated **features**
are encoded. A first code strings corresponding to representative frame
images are registered, beforehand. A...

...The extracted frame image is divided into several portions and another
feature is calculated for each portions based on average **values** of
colour elements. The calculated **features** are encoded and second code
strings corresponding to several representative frame images are
derived. The two strings are matched by a **character** **strings** matches
to conduct video retrieval...

?

04197905   **Image available**
METHOD AND DEVICE FOR DETECTING BOUNDARY OF WORD AND CHARACTER RECOGNIZING DEVICE

ABSTRACT
... detecting method capable of detecting in good probability the boundary
of a word from a **character** **string** written at a free pitch, a device
appropriate for the detecting method and a character...
...CONSTITUTION: The word boundary **detecting** method having an **image**
memory 2 for storing image data obtained by optically scanning a
character **string** to be processed is provided with a peripheral
distribution calculating processing step 3 for scanning...

...character area in image data in the horizontal or vertical direction and
finding out a **value** obtained by adding the number of black **picture**
elements in each **line** or column of **picture** **elements** , a smoothing
processing step 4 for successively finding out the average **value** of the
number of black **picture** **elements** in an area consisting of one character
or more while moving a start position for finding out the average **value**
in each **picture** **element** and a boundary determining processing step 5
for detecting a change point from the output...
?

015087978   **Image available**
WPI Acc No: 2003-148496/200314
XRPX Acc No: N03-117293
  Text detection **within video** images **uses analysis of** pixel
  intensity **gradient to locate text within Internet images**
Patent Assignee: FRANCE TELECOM SA (ETFR)
Inventor: CHASSAING F; JOLION J; WOLF C; JOLION J M
Number of Countries: 101 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200295662	A1	20021128	WO 2002FR1712	A	20020523	200314	B
FR 2825173	A1	20021129	FR 20016776	A	20010523	200314	
EP 1390905	A1	20040225	EP 2002735549	A	20020522	200415	
			WO 2002FR1712	A	20020522		
AU 2002310677	A1	20021203	AU 2002310677	A	20020523	200452	

Priority Applications (No Type Date): FR 20016776 A 20010523
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
WO 200295662 A1 F 46 G06K-009/00
    Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
    CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
    IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
    OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU
    ZA ZW
    Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
    IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW
FR 2825173   A1   G06T-005/00
EP 1390905   A1 F   G06K-009/00   Based on patent WO 200295662
    Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
    LU MC NL PT SE TR
AU 2002310677 A1   G06K-009/00   Based on patent WO 200295662
  Text detection **within video** images **uses analysis of** pixel
  intensity **gradient to locate text within Internet images**

Abstract (Basic):
...   The method for detecting text includes analysis of the
  horizontal gradient of the **intensity** of **pixels** within the image.
  The gradients are integrated over a given window size, and grey levels
    ...
...   method for detecting text in a video image comprises the
  following steps: firstly calculating the **horizontal** gradient of the
  intensity of each **pixel** of the video image and adding, for each
  pixel of the video image, the **horizontal** gradients of **pixels**
  belonging to an integration window including the **pixel** concerned.
  This generates an image sum of gradients. Second this image sum of
  gradients is transformed into a binary image comprising text **pixels**
  having a grey level, V1, and non-text **pixels** having a grey level, V2,
  the neighboring text **pixels** being assembled in the text zones.
  Thirdly a mathematical morphological processing is applied, **line** by
  line , to the binary image so as to connect the text zones
  horizontally distant by a maximum of N **pixels** .

...Title Terms: **PIXEL** ;
International Patent Class (Main): **G06K-009/00** ...
...International Patent Class (Additional): **G06K-009/62**

DIALOG(R)File 350:Derwent WPIX
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009467314   **Image available**
WPI Acc No: 1993-160853/199320
XRPX Acc No: N93-123451
  Digital image processing of amplitude histogram by statistical pixel
  sampling - displaying radiographic image by scanning stimulable phosphor
  sheet carrying radiation image **and** detecting **light**
Patent Assignee: AGFA-GEVAERT NV (GEVA); AGFA-GEVAERT AG (GEVA);
  AGFA-GEVAERT (GEVA)
Inventor: HAYEN L
Number of Countries: 007 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 542361	A1	19930519	EP 92203437	A	19921110	199320	B
JP 5342349	A	19931224	JP 92328420	A	19921113	199405	
US 5579402	A	19961126	US 92973427	A	19921109	199702	
			US 95457322	A	19950601		
EP 542361	B1	19980916	EP 92203437	A	19921110	199841	
DE 69227008	E	19981022	DE 627008	A	19921110	199848	
			EP 92203437	A	19921110		
JP 3290483	B2	20020610	JP 92328420	A	19921113	200241	

Priority Applications (No Type Date): EP 91202952 A 19911114
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 542361	A1	E	14	G06F-015/36	
Designated States (Regional): BE DE FR GB NL					
JP 5342349	A			G06F-015/70	
US 5579402	A		11	G06K-009/00	Cont of application US 92973427
EP 542361	B1	E		G06F-017/18	
Designated States (Regional): BE DE FR GB NL					
DE 69227008	E			G06F-017/18	Based on patent EP 542361
JP 3290483	B2		9	G06T-007/00	Previous Publ. patent JP 5342349

  Digital image processing of amplitude histogram by statistical pixel
  sampling...

...**displaying radiographic image by scanning stimulable phosphor sheet**
  carrying radiation image **and** detecting **light**

...Abstract (Basic): The histogram of a radiographic image signal takes
  pixel values (step 1; S1) of a stimulated phosphor sheet and captures
  and digitises them resulting...
...image signal matrix. Each point of the digital image matrix is
  associated with a grey **intensity** level which is a function of the
  light **intensity** emitted by the corresponding surface element...

...as an amplitude histogram (S5) on a monitor. The diagnostically relevant
  range in the raw **image** signal is **determined** on the basis of the
  histogram (S6...
...Abstract (Equivalent): histogram of an image signal matrix
  representative of a radiographic image having a plurality of **pixels** ,
  said method comprising the steps of...

...ii) detecting for each **pixel** the light emitted after stimulation...

...iii) converting for each **pixel** the detected light into electrical
   signals...

...collecting a subset of said electrical signals by statistical sampling
   relative to discrete, non-clustered **pixels** , said statistical sampling
   being performed by the following steps...

...b) deducting from di a range of corresponding **pixel** numbers ni...

...e) defining all sampling **lines** as follows: locating the initial
   sample- **line** (on which the first **pixel** -samples will be taken) at
   height y, and defining all next sample- **lines** by upgrading the
   position of the initial sample- **line** by increments of n...

...g) sampling all **pixels** pj as follows: determining the initial **pixel**
   (which will be sampled first) on each **line** at **horizontal** position
   x1 for the first **line** , x2 for the second **line** , etc; and defining
   all next **pixels** on each **line** to be sampled by upgrading the initial
   pixel position xJ by increments of n up to the end of each **line** to
   be sampled...
...Title Terms: **PIXEL** ;
...International Patent Class (Main): **G06K-009/00**

 41/3,K/3   (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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008411953   **Image available**
WPI Acc No: 1990-298954/199040
XRPX Acc No: N90-229943
   Image **processor for** detecting **edges and** lines **- by performing one
   dimensional analysis of mixer image** intensity **in** horizontal **and**
   vertical **scan** lines
Patent Assignee: HUGHES AIRCRAFT CO (HUGA)
Inventor: MEYER R H; TONG K K
Number of Countries: 007 Number of Patents: 007
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 389968	A	19901003	EP 90105455	A	19900322	199040	B
US 5081689	A	19920114				199206	
EP 389968	A3	19920102	EP 90105455	A	19900322	199320	
IL 93533	A	19930922	IL 93533	A	19900226	199349	
EP 389968	B1	19960703	EP 90105455	A	19900322	199631	
DE 69027616	E	19960808	DE 627616	A	19900322	199637	
			EP 90105455	A	19900322		
ES 2088913	T3	19961001	EP 90105455	A	19900322	199645	

Priority Applications (No Type Date): US 89328919 A 19890327
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 389968	B1	E	14	G06T-009/20	

   Designated States (Regional): DE ES FR GB SE

DE 69027616	E			G06T-009/20	Based on patent EP 389968
ES 2088913	T3			G06T-009/20	Based on patent EP 389968
IL 93533	A			G06F-015/66	

   Image **processor for** detecting **edges and** lines - ...

...found between curvature extrema (20) are then correlated with other edge
points in previous scan **lines** to determine if they fall within a
range of predicted **line** segments. **Line** segment data may then be
processed at higher levels to identify objects in the data...

...USE - For processing image data to derive edges and **line** segments e.g.
coastlines, roads or vehicles, using computer vision system. (9pp...

...US5081689 Image **intensity** data is processed in one dimension along a
series of scan **lines** to produce an **intensity** curve (10). Pairs of
points along a scan **line** curve (10) representing curvature extrema
(20) are checked to determine if the **intensity** difference between the
curvature extrema (20) are characteristic of edges. Edge points are
then determined...

...found between curvature extrema (20) are then correlated with other edge
points in previous scan **lines** to determine if they fall within a
range of predicted **line** segments. **Line** segment data may then be
processed at higher levels to identify objects in the data...

...USE - For processing image data to derive edges and **line** segments e.g.
coastlines, roads or vehicles, using computer vision system. (9pp)
...Title Terms: **LINE** ;
...International Patent Class (Additional): **G06K-009/00**

41/3,K/4   (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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007744253
WPI Acc No: 1989-009365/198902
XRPX Acc No: N89-007169
  Object structure identification **system wing video** image **evaluation** -
  uses **analog-digital conversion and intermediate data reduction**
Patent Assignee: SIEMENS AG (SIEI   )
Inventor: ESTERHAMMER S; KILGENSTEIN S; MENGEL P; ESTERHAMME S; KILGENSTEI
  S
Number of Countries: 007 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 298250	A	19890111	EP 88108722	A	19880531	198902	B
US 5031224	A	19910709	US 88217847	A	19880708	199130	
EP 298250	B	19920506	EP 88108722	A	19880531	199219	
DE 3870729	G	19920611	DE 3870729	A	19880531	199225	
			EP 88108722	A	19880531		

Priority Applications (No Type Date): DE 3722922 A 19870710
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 298250	A	G	11		

    Designated States (Regional): CH DE FR GB LI NL

| EP 298250 | B | G | 12 | | |

    Designated States (Regional): CH DE FR GB LI NL

| DE 3870729 | G | | | G06K-009/46 | Based on patent EP 298250 |

  Object structure identification **system wing video** image **evaluation**...

...Abstract (Basic): The identification system uses an optoelectronic image

05924773   **Image available**
RULED LINE PROCESSOR AND STORAGE MEDIUM

PUB. NO.:   10-207873 [JP 10207873 A]
PUBLISHED: August 07, 1998 (19980807)
INVENTOR(s):   HORIGUCHI TAKESHI
APPLICANT(s): CASIO COMPUT CO LTD [350750] (A Japanese Company or
               Corporation), JP (Japan)
APPL. NO.:   09-006638 [JP 976638]
FILED: January 17, 1997 (19970117)

...JAPIO KEYWORD: **Word** Processors)

                        ABSTRACT
...TO BE SOLVED: To automatically generate a ruled line in conformity with
a previously inputted **character** **string** when a stable is generated and
to put characters in a table frame by automatically...

... performs a ruled line automatic generating process as a process
regarding a table generating process, **recognizes** the external frame of
 character   **string**   data stopped in a document memory 4a in a RAM 4 to
draw a ruled line for the external frame, and then **recognizes** the column
spacing of the character sting data to draw longitudinal ruled lines and
also...

...regarding the table generating process and reduces the character size of
the changed and inputted **character**   **string** if the **character**   **size**
 exceeds the ruled **line**   frame to put the **character**   **string** in the
ruled line frame.

05855470   **Image available**
CHARACTER INFORMATION-PROCESSING APPARATUS

PUB. NO.:   10-138570 [JP 10138570 A]
PUBLISHED: May 26, 1998 (19980526)
INVENTOR(s):   WATANABE KENJI
               NIIMURA TOMOYUKI
               KAMEDA TAKANOBU
               AIDA CHIEKO
               KURASHINA HIROYASU
               HOSOKAWA TAKESHI
APPLICANT(s): KING JIM CO LTD [358800] (A Japanese Company or Corporation),
               JP (Japan)
               SEIKO EPSON CORP [000236] (A Japanese Company or Corporation)
               , JP (Japan)
APPL. NO.:   08-304446 [JP 96304446]
FILED: November 15, 1996 (19961115)

...JAPIO KEYWORD: **Word** Processors)

                        ABSTRACT

...through operations from a breadth of a printing medium, a count of lines of input **character** **strings** and a **character** **size** of each **line** .

...

...SOLUTION: When **recognizing** that a printing command key of a key input part 11 is manipulated, a CPU 21 carries out a determining process of a **character** **size** of each **line** , a determining process of a count of dots between lines, etc. The count of dots...

...through operations from a breadth of a printing medium, a count of lines of input **character** **strings** and the **character** **size** of each **line** . The **character** **size** determined at the determining process is stored in a character size-holding part 23b, and...

... determining process is stored in an inter-line dot count-holding part 23c. The input **character** **strings** are developed to a dot pattern in accordance with determined various printing attributes, and started

45/3,K/3 **(Item 3 from file: 347)**
DIALOG(R)File 347:JAPIO
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05573225 **Image available**
CHARACTER INFORMATION PROCESSING DEVICE

PUB. NO.: 09-188025 [JP 9188025 A]
PUBLISHED: July 22, 1997 (19970722)
INVENTOR(s): WATANABE KENJI
KAMEDA TAKANOBU
NIIMURA TOMOYUKI
HAYAMA HITOSHI
APPLICANT(s): KING JIM CO LTD [358800] (A Japanese Company or Corporation), JP (Japan)
SEIKO EPSON CORP [000236] (A Japanese Company or Corporation)

, JP (Japan)
APPL. NO.: 08-000323 [JP 96323]
FILED: January 05, 1996 (19960105)

...JAPIO KEYWORD: **Word** Processors)

ABSTRACT

...SOLUTION: The type of a mounted seal **recognized** (100). The allowable number of ·line to be set by the type of a seal **recognized** and is stored in a specified buffer(102). At this point of time, a method for assigning a **character** **size** per **line** is identified(103) based on information of the attribute of an entire effective entered **character** **string** . For example, in a method for assigning a character size automatically with the help of ...

... stored in the area as the allowable number of characters(105). After that, it is **recognized** whether or not there is the number of characters, exceeding the allowable number of characters...

45/3,K/4 **(Item 4 from file: 347)**
DIALOG(R)File 347:JAPIO
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05051534   **Image available**
HANDWRITTEN CHARACTER **RECOGNITION** AND INPUT SYSTEM

HANDWRITTEN CHARACTER **RECOGNITION** AND INPUT SYSTEM
...JAPIO KEYWORD: **Word** Processors)

                              ABSTRACT
PURPOSE: To provide a device for **recognizing** and inputting a handwritten
character capable of handwrite-inputting with a feeling like writting to...

... a frame control means 107 displays plural input frames which are formed
larger than a **recognizing** character at the position so as to input a
handwritten character. At this time, a...
... pen and starting to write a second character in a next input frame, a
character **recognition** means 106 refers to a character **recognition** table
105 and converts a handwritten character corresponding to on input frame to
a **recognized** character so as to display, and the frame control means 107
erases the input frame corresponding to the **recognized** character and
successively adds and displays the input frame of the same **size** along the
same **line / string** with the **recognized** **character** .

 45/3,K/5   (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO
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04174117   **Image available**
DOCUMENT PROCESSOR

...JAPIO KEYWORD: **Word** Processors)

                              ABSTRACT
PURPOSE: To input a written character to an intended position even when a
display character **size** , character pitch and **line** pitch are small by
deciding the input position of a newly inputted character set based...
...CONSTITUTION: At the time of writing-inputting a **character** **string** by
a pen for an input to a tablet 1 with integrated a display, a...

... Then. the handwriting coordinate data and the pen-up time are

transmitted to a character **recognizing** device 5 and the handwriting coordinate data are transmitted to a character input position deciding device 3. Then, a character is **recognized** by the character **recognizing** device 5 from the handwriting coordinate and the input position of the **recognized** character is decided by the character input position deciding device 3 based on a position...

45/3,K/6 **(Item 6 from file: 347)**
DIALOG(R)File 347:JAPIO
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02733682 **Image available**
ELECTRONIC TRANSLATING APPLIANCE

ABSTRACT
...CONSTITUTION: A character extracting means 1 extracts character image data sent from a **character string** extracting means and a CPU 1 extracts the character in accordance with the program in a ROM 4. When the character is extracted from the **character string** , the **character** is made into the thicking line in the direction of the **character string** , and the linkage component is extracted. After this, the character an be reproduced by executing a thinning line to extracting character data with the same **size** as a thicking **line** in the vertical direction to the **character string** , and separate **characters** such as (1 deg.), (j), etc., can be correctly extracted. Thus, a character **recognition** at a next stage and the **recognition** rate of a **word recognition** can be improved.
?

Set	Items	Description
S1	12009	(TEXT OR ALPHABET OR CHARACTER?? OR LETTERS)(3N)STRING??
S2	1185	S1(3N)(FEATURE? OR PARAMETER? OR VALUE? OR CHARACTERISTICS OR SHAPE? OR VISUAL? OR SHAPING)
S3	909229	LINE OR LINES
S4	80320	PIXEL? OR PEL OR PICTURE()ELEMENT?
S5	11913	S4(5N)(LUMINENCE? OR BRIGHT? OR HUE?? OR EQUI()LUMINENCE? - OR EQUILUMINENCE? OR INTENSIT?)
S6	5210	SEARCH?(3N)(KEYWORD? OR KEY()WORD? OR WORDS OR WORD)
S7	241	S1(3N)(HIGHLIGHT? OR HIGH()LIGHT? OR BOX OR THUMBNAIL OR E-XPAND? OR ENLARG?)
S8	116	FLIP(3N)CARD??
S9	47586	(DETERMINE? OR DISCERN? OR DETECT? OR DISTINGUISH? OR IDEN-TIF?)(3N)IMAGE??
S10	252	S1(3N)(REGIONS OR REGION OR RANGE? OR ZONES OR ZONE OR BOU-NDARY OR BOUNDARIES OR EDGES OR EDGE)
S11	279	(EMBED? OR INSIDE OR INCORP?)(3N)SCENE??
S12	48708	S3(3N)(HORIZONTAL? OR VERTICAL? OR XY)
S13	0	EXTRACT?(3N)S2(3N)FIRST(5N)SECOND(5N)(COMPAR? OR MATCH? OR SIMILAR OR LIKENESS)
S14	24771	S3(3N)(WIDTH? OR SIZE?)
S15	74	AU=(NAGASAKA, A? OR MIYATAKE, T? OR NAGASAKA A? OR MIYATAKE T?)
S16	27348	IC=G06K?
S17	2	S6(S)S5
S18	0	S1(S)S11
S19	153	S1(S)S9
S20	24	S19(S)S4
S21	0	S20(S)S14
S22	11	S20(S)S3
S23	11	S22 NOT S17
S24	6	S23 AND AD=20010322:20051011/PR
S25	5	S23 NOT S24
S26	3	S15 AND S1
S27	3	S26 NOT (S17 OR S25)
S28	0	S1(S)S8
S29	0	S8(S)S5
S30	12	S8 AND S16
S31	12	S30 NOT (S26 OR S17 OR S25)
S32	4	S31 AND AD=20010322:20051011/PR
S33	8	S31 NOT S32
S34	0	S33 NOT (WALLET OR CARD OR BARCODE OR BAR()CODE OR LASER OR IC()CARD)
S35	6	S5(S)S11
S36	6	S35 NOT (S30 OR S26 OR S17 OR S25)
S37	3	S36 AND AD=20010322:20051011/PR
S38	3	S36 NOT S37
S39	0	MATCH?(3N)VISUAL(3N)FEATURE?(5N)REGION?(5N)S5
S40	2	S10(S)S6
S41	2	S40 NOT (S35 OR S30 OR S26 OR S17 OR S25)
S42	1199	S5(S)S9
S43	2	S42(S)S1
S44	2	S43 NOT (S40 OR S35 OR S30 OR S26 OR S17 OR S25)
S45	36	S42(S)(S12 OR S14)
S46	4	S45(S)VIDEO
S47	4	S46 NOT (S43 OR S40 OR S35 OR S30 OR S26 OR S17 OR S25)

```
S48     120   FIRST(3N)VISUAL(3N)SECOND(3N)(MATCH? OR SIMILAR OR SAME OR
               COMPAR?)
S49       0   S48(S)(S1 OR S2 OR S10 OR S7)
S50       0   S48(S)S14
S51       2   S48 AND S16
S52       2   S51 NOT (S46 OR S43 OR S40 OR S35 OR S30 OR S26 OR S17 OR -
               S25)
S53       2   S10(S)S5
S54       0   S52 NOT (S51 OR S46 OR S43 OR S40 OR S35 OR S30 OR S26 OR -
               S17 OR S25)
```

17/3,K/1   (Item 1 from file: 348)

01056306
Method for obtaining a digitized radiographic picture of an object
Verfahren zur Erzeugung eines digitalisierten Bildes von einem Objekt
Procede pour l'obtention d'une image numerisee d'un objet
PATENT ASSIGNEE:
  GE MEDICAL SYSTEMS SA, (1700702), 83, rue de la Miniere, 78533 Buc Cedex,
    (FR), (applicant designated states:
    AT;BE;CH;CY;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)
INVENTOR:
  Lienard, Jean, 155, Rue Estienne d'Orves, 92140 Clamart, (FR)
  Rougee, Anne, 15, Rue Gallieni, 91120 Palaiseau, (FR)
LEGAL REPRESENTATIVE:
  Goode, Ian Roy (31098), London Patent Operation General Electric
    International, Inc. Essex House 12-13 Essex Street, London WC2R 3AA,
    (GB)
PATENT (CC, No, Kind, Date): EP 932119 A1 990728 (Basic)
APPLICATION (CC, No, Date):   EP 99300268 990115;
PRIORITY (CC, No, Date): FR 98643 980122
DESIGNATED STATES: DE; NL
INTERNATIONAL PATENT CLASS: G06T-005/50;
ABSTRACT WORD COUNT: 149

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language Update   Word Count
      CLAIMS A (English) 9930   772
      SPEC A   (English) 9930   3852
Total word count - document A   4624
Total word count - document B   0
Total word count - documents A + B   4624

...SPECIFICATION IF7. In this regard, this resultant secondary image is
  created by a search for minimum **intensity** between the corresponding
  pixels of the fixed secondary images. In other **words** , a **search** is
  made for the contrast maximum in each fixed image, and these strongly
  contrasted parts...

17/3,K/2   (Item 1 from file: 349)

00795242   **Image available**
RAPID, AUTOMATIC MEASUREMENT OF THE EYE'S WAVE ABERRATION
MESURE AUTOMATIQUE ET RAPIDE D'ABERRATION D'ONDE DE L'OEIL
Patent Applicant/Assignee:
  UNIVERSITY OF ROCHESTER, 518 Hylan Building, Rochester, NY 14627, US, US
    (Residence), US (Nationality), (For all designated states except: US)
  VARGAS Fernando, Laboratorio de Optica, Dept. Fisica, Universidad de
    Murcia, Campus de Espinardo (Edificio C), E-30071 Murcia, ES, ES
    (Residence), ES (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  WILLIAMS David R, 28 Shelter Creek Lane, Fairport, NY 14450, US, US
    (Residence), US (Nationality), (Designated only for: US)
  VAUGHN William J, 64 Beckman Place, Rochester, NY 14620, US, US
    (Residence), US (Nationality), (Designated only for: US)

SINGER Benjamin D, 9 Candlewood Drive, Pittsford, NY 14534, US, US
    (Residence), US (Nationality), (Designated only for: US)
HOFER Heidi, 50 West Stanford Road, Rochester, NY 14620, US, US
    (Residence), US (Nationality), (Designated only for: US)
YOON Geun Young, 252D Quinby Road, Rochester, NY 14623, US, US
    (Residence), KR (Nationality), (Designated only for: US)
ARTAL Pablo, Laboratorio de Optica, Dept. Fisica, Universidad de Murcia,
    Campus de Espinardo (Edificio C), E-30071 Murcia, ES, ES (Residence),
    ES (Nationality), (Designated only for: US)
ARAGON Juan Luis, Laboratorio de Optica, Dept. Fisica, Universidad de
    Murcia, Campus de Espinardo (Edificio C), E-30071 Murcia, ES, ES
    (Residence), ES (Nationality), (Designated only for: US)
PRIETO Pedro, Laboratorio de Optica, Dept. Fisica, Universidad de Murcia,
    Campus de Espinardo (Edificio C), E-30071 Murcia, ES, ES (Residence),
    ES (Nationality), (Designated only for: US)
Legal Representative:
  GREENBAUM Michael C (et al) (agent), Blank Rome Comisky & McCauley LLP,
    Suite 1000, 900 17th Street, N.W., Washington, DC 20006, US,

Detailed Description
...   227.

    The centroid of the search box corresponds to the center of mass of that
    search box.

    In other **words** , the process 400 weights each pixel in the search box by
    the **intensity** of that **pixel** and defines the centroid. Other
    parameters may also be used instead of, or in addition to, the average
    intensity to determine the centroid location. For example, minimum and
    maximum **pixel   intensity** threshold values may be defined with only
    pixel values within the thresholds used to calculate...
?

00764314
**Linear line detection apparatus using projection image of character string
     including linear line**
Gerat zur Detektion einer geraden Linie aus dem Projektionsbild einer eine
     Linie enthaltenden Zeichenkette
Appareil pour la detection de lignes lineaires au moyen de l'image de la
     projection de chaines de caracteres (ligne lineaire inclue)
PATENT ASSIGNEE:
  KABUSHIKI KAISHA TOSHIBA, (213137), 72, Horikawa-cho, Saiwai-ku,
     Kawasaki-shi, Kanagawa 212-8572, (JP), (Proprietor designated states:
     all)
INVENTOR:
  Sano, Tikara, c/o K.K. Toshiba, 1-1 Shibaura 1-chome, Minato-ku, Tokyo
     105, (JP)
  Nakamura, Yoshikatu, c/o K.K. Toshiba, 1-1 Shibaura 1-chome, Minato-ku,
     Tokyo 105, (JP)   '
LEGAL REPRESENTATIVE:
  Blumbach, Kramer & Partner GbR (101302), Radeckestrasse 43, 81245 Munchen
     , (DE)
PATENT (CC, No, Kind, Date):   EP 717365   A2   960619 (Basic)
                               EP 717365   A3   961016
                               EP 717365   B1   020227
APPLICATION (CC, No, Date):   EP 95119237 951206;
PRIORITY (CC, No, Date): JP 94307324 941212; JP 95189248 950725
DESIGNATED STATES: DE; GB
INTERNATIONAL PATENT CLASS: G06K-009/34
ABSTRACT WORD COUNT: 248
NOTE:
  Figure number on first page: 7

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	1820
CLAIMS B	(English)	200209	1611
CLAIMS B	(German)	200209	1451
CLAIMS B	(French)	200209	1878
SPEC A	(English)	EPAB96	6795
SPEC B	(English)	200209	4722
Total word count - document A			8616
Total word count - document B			9662
Total word count - documents A + B			18278

...ABSTRACT A3
    A line image detection apparatus having an **image**   input
  function (S1) for inputting an image on a document, which image includes
  a rectangular 'character   string (12) and a linear **line** (13) drawn
  along the   character   string , a function (S2) for **detecting** a
  character   string   image from the image, a function (S3) for forming
  a projection image (FIG. 6B) on the basis of the distance from a lower
  end of the character   string image to each first black **pixel** found
  in the   **character   string** image in the vertical direction, a function
  (S4) for comparing the distance from the lower end of the **character**
  string image to each first black **pixel** , with a predetermined
  threshold value (f),   thereby to define a plurality of "slice 0" areas...

...the distance, in each of the "slice 0" areas, from the lower end of

means (S6) for obtaining the distance from the lower end of the **character string** image to each first black **pixel** , and preparing a distance histogram (FIG. 8A) concerning the distance; and

means (S10) for determining that the detected linear **line** is a solid **line** , when in the distance histogram, the ratio of the frequency of one distance value (T2...image from which the linear line is removed by the removal means.

13. The line **image detection** apparatus according to claim 3, characterized in that the linear **line** detecting means (S8) includes:

means (S3) for forming a second projection image (FIG. 6B) on the basis of the distance from an upper end of the **character string image detected** by the **character string image detecting** means, to each first black **pixel** found in the **character string** image in the vertical direction;

means (S4) for comparing the distance from the upper end of the **character string** image to each first black **pixel** , with a second predetermined threshold value (f), thereby to define a plurality of second "slice...

...distance, in each of the second "slice 0" areas, from the upper end of the **character string** image to each first black **pixel** being lower than the predetermined threshold value (f);

means (S4) for determining the center point...

...interval (P(m) in FIG. 15); and

means (S8) for determining that the detected linear **line** is a broken **line** , when the ratio of that frequency of a third interval value (T1) which is highest...

...fourth interval value with a highest frequency in the second interval histogram.

14. The line **image detection** apparatus according to claim 1, characterized in that the linear **line** recognizing means includes:

means (S8) for obtaining the distance from each of plural points of the lower end of the **character string** image, to each first black **pixel** in the vertical direction, and preparing a distance histogram (FIG. 8A) concerning the distance; and

means (S10, S11) for determining that the detected linear **line** is a solid **line** , when in the distance histogram, the ratio of that frequency of a distance value, which...

...CLAIMS and possibly a linear line (13) drawn along the character string,

means (S2, 7) for **detecting** , from the **image** input by the image input means, a rectangular **character string** image (FIG. 5) including the **character string** and the linear **line** which are constituted by black **pixels** , and
means (S3, 4, 5, 8, 10, 11, 23, 25, 26) for recognizing that the...

00536134
Method and system for layout analysis of a document image.
Verfahren und System zur Analyse der Anordnung eines Dokumentes.
Methode et systeme pour l'analyse du mise en page d'un document.
PATENT ASSIGNEE:
   International Business Machines Corporation, (200120), Old Orchard Road,
      Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)
INVENTOR:
   Yamashita, Akio, 1-3-17-205 Tajima, Urawa-shi, Saitama-ken, (JP)
LEGAL REPRESENTATIVE:
   Burt, Roger James, Dr. (52152), IBM United Kingdom Limited Intellectual
      Property Department Hursley Park, Winchester Hampshire SO21 2JN, (GB)
PATENT (CC, No, Kind, Date): EP 496531 A2 920729 (Basic)
                              EP 496531 A3 940119
APPLICATION (CC, No, Date):   EP 92300380 920116;
PRIORITY (CC, No, Date): JP 9121471 910123
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: G06K-009/32;
ABSTRACT WORD COUNT: 167

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	558
SPEC A	(English)	EPABF1	5321
Total word count - document A			5879
Total word count - document B			0
Total word count - documents A + B			5879

...SPECIFICATION Rectangles enclosing white pixel regions are extracted on
   the basis of the rectangle data of **character** **strings** , vertical and
   horizontal ruled **lines** , and so on. After neighbouring white **pixel**
   rectangles having substantially the same height are integrated, all
   rectangles whose lengths and widths reach...

...horizontal separators. More specifically, vertical separators extending
   from the top to the bottom of an **image** are **detected** , and data on
   their positions are obtained and registered. Next, horizontal separators
   whose opposite ends...

...in alternate and recursive fashion. For example, separators, whose
   approximate positions are shown by bold **lines** for convenience, are
   extracted from the page shown in Fig. 4. Subsequently to, or in parallel
   with, the foregoing steps, vertical or horizontal black ruled **lines**
   that are not shorter than a threshold are also registered as separators.
      It is required...

 25/3,K/3   (Item 3 from file: 348)

00386177
Image processing apparatus
Bildverarbeitungsgerat
Appareil de traitement d'image

PATENT ASSIGNEE:
  CANON KABUSHIKI KAISHA, (542361), 30-2, 3-chome, Shimomaruko, Ohta-ku,
    Tokyo, (JP), (applicant designated states: DE;FR;GB)
INVENTOR:
  Ikeda, Yoshinori, 15-8, Tairo-cho, 2-chome, Meguro-ku, Tokyo, (JP)
LEGAL REPRESENTATIVE:
  Tiedtke, Harro, Dipl.-Ing. et al (11949), Patentanwaltsburo
    Tiedtke-Buhling-Kinne & Partner Bavariaring 4, 80336 Munchen, (DE)
PATENT (CC, No, Kind, Date):   EP 371005   A1   900530 (Basic)
                               EP 371005   B1   950607
APPLICATION (CC, No, Date):   EP 90101031 840307;
PRIORITY (CC, No, Date): JP 8336673 830308; JP 8344989 830317; JP 8344990
    830317; JP 8344991 830317
DESIGNATED STATES: DE; FR; GB
RELATED PARENT NUMBER(S) - PN (AN):
  EP 122430
INTERNATIONAL PATENT CLASS: H04N-001/387
ABSTRACT WORD COUNT: 78

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9844	671
CLAIMS B	(German)	9844	561
CLAIMS B	(French)	9844	755
SPEC B	(English)	9844	7218
Total word count - document A			0
Total word count - document B			9205
Total word count - documents A + B			9205

...SPECIFICATION to read access. This region designation is performed by
   giving the printout start point, the **pel** number, and the scanning **line**
   number, so that address signals for the image memories 28-1, 28-2 and 28
   ...detected such that the IEND code inserted at the end of one page of
   the **image** is **detected** by the character code decoder which supplies
   the character code transfer end signal 110 to...

...the color discrimination signal 104 of the transferred color image
   (steps S217 to S221), so **that** the predetermined color image data are
   stored in the corresponding image buffer memories. In the...

...and horizontal synchronizing signals 106V and 106 H. When data of the
   predetermined number of **lines** (4752 **lines** in this embodiment) are
   stored, the write address generator 30 supplies the storage end signal...
   types of data (e.g., image data compression code string, any other code,
   or command **string**) can be exchanged through a single data **line** by
   using the data discrimination signal (data control command shown in Fig.
   11) and a...

 25/3,K/4   (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00401842   **Image available**
**APPARATUS AND METHOD FOR MANAGING AND DISTRIBUTING DESIGN AND MANUFACTURING
    INFORMATION THROUGHOUT A SHEET METAL PRODUCTION FACILITY**
**APPAREIL ET METHODE CORRESPONDANTE PERMETTANT DE GERER ET DE REPARTIR UNE
    INFORMATION RELATIVE A LA CONCEPTION ET A LA FABRICATION DANS UNE
    INSTALLATION DE PRODUCTION DE TOLES**

Patent Applicant/Assignee:
  AMADA METRECS CO LTD,
  AMADASOFT AMERICA INC,
Inventor(s):
  HAZAMA Kensuke,
  KASK Kalev,
  SAKAI Satoshi,
  SUBBARAMAN Anand Hariharan,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 9742586 A1 19971113
  Application: WO 97US7471 19970506 (PCT/WO US9707471)
  Priority Application: US 9616958 19960506; US 96690671 19960731
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
Publication Language: English
Fulltext Word Count: 146782

Fulltext Availability:
  Detailed Description

Detailed Description
... virtual space to cursor movements within a screen space of the screen,
  such that the **image** modification system modifies the displayed image of
  the part based on the cursor movements mapped...

 25/3,K/5   (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00328272   **Image available**
**USER   DEFINABLE   PICTORIAL   INTERFACE   FOR   ACCESSING   INFORMATION   IN   AN
    ELECTRONIC FILE SYSTEM**
**INTERFACE GRAPHIQUE DEFINISSABLE PAR L'UTILISATEUR SERVANT A ACCEDER A DES
    INFORMATIONS DANS UN SYSTEME DE FICHIERS ELECTRONIQUE**
Patent Applicant/Assignee:
  BAKER Michelle,
Inventor(s):
  BAKER Michelle,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 9610782 A1 19960411
  Application: WO 95US13120 19950929 (PCT/WO US9513120)
  Priority Application: US 94316518 19940930
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP
  KR KZ LK LR LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK
  TJ TM TT UA UG US UZ VN KE MW SD SZ UG AT BE CH DE DK ES FR GB GR IE IT
  LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 33750

Fulltext Availability:
  Claims

Claim
... output included text and decimal numbers, which were input using
  punch cards and output using **line** printers. A major advance in

even the graphic icons of file folders and paper...even less representative of
file and directory content than are the limited graphic icons and **text** **string** names available in an ordinary operating system interface.
User definable hot spots that respond to...which the contents of a directory are displayed
as pictorial elements in a pictorial graphic **image** which **identifies** the directory.
It is still another object of the invention to provide a graphical user interface in which a pictorial graphic **image** which **identifies** a directory is scrollable in at least two directions.
It is yet another object of new icons by
selecting portions of a pictorial graphic **image** which **identifies** a directory.
It is also an object of the invention to provide a graphical user...
?

DIALOG(R)File 348:EUROPEAN PATENTS

01174340
Image recording/reproducing apparatus in monitor system
Bildaufnahme/ Wiedergabegerat in einem Uberwachungssystem
Appareil d'enregistrement et reproduction d'images dans un systeme de
   surveillance
PATENT ASSIGNEE:
   Hitachi, Ltd., (204151), 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo
      101-8010, (JP), (Applicant designated States: all)
INVENTOR:
   Nagaya, Shigeki, Hitachi Ltd, New Marunouchi Bldg, 1-5-1 Marunouchi,
      Chiyoda-ku, Tokyo 100-8220, (JP)
   Miyatake, Takafumi , Hitachi Ltd, New Marunouchi Bldg, 1-5-1 Marunouchi,
      Chiyoda-ku, Tokyo 100-8220, (JP)
   Fujita, Takehiro, Hitachi Ltd, New Marunouchi Bldg, 1-5-1 Marunouchi,
      Chiyoda-ku, Tokyo 100-8220, (JP)
   Nagasaka, Akio , Hitachi Ltd, New Marunouchi Bldg, 1-5-1 Marunouchi,
      Chiyoda-ku, Tokyo 100-8220, (JP
LEGAL REPRESENTATIVE:
   Beetz & Partner Patentanwalte (100712), Steinsdorfstrasse 10, 80538
      Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 1024666 A2 000802 (Basic)
                              EP 1024666 A3 010725
APPLICATION (CC, No, Date):   EP 2000101286 000127;
PRIORITY (CC, No, Date): JP 9921241 990129
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04N-007/18
ABSTRACT WORD COUNT: 248
NOTE:
   Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200031	2071
SPEC A	(English)	200031	13835
Total word count – document A			15906
Total word count – document B			0
Total word count – documents A + B			15906

INVENTOR:
... JP)
   Miyatake, Takafumi ...
...JP)
   Nagasaka, Akio ...

...SPECIFICATION in the form of tables, respectively. The node search key
   162-4-3 is a **character   string** for accessing directly or
   straightforwardly the node of the lowest level with the aid of...

...main key for enabling a hash search of the time tree table. Because of
   the **character   string** , key generation is facilitated with the
   computation cost or overhead for the search being reduced...the case of
   the instant embodiment of the invention, tags are used for displaying the
   character   string indicating the time point of the monitored event and
   the representative images thereof in tile...

...By changing over the corresponding destination in response to the click by the user, the **character** **string** serving as parameter is written previously in succession to a question mark at the jump...

...ID) indicative of the range on the image table 162-2 is extracted from the **character** **string** assigned to the parameter named "s Jump Key" in a step 1131, whereon search of...transferred by every hyper-jump tag <A> is changed. As the above-mentioned value, the **character** **string** constituted by "place name" + "date/time" is employed as denoted by reference numerals 1310 and 1320. The **character** **string** is same as the node search key 162-4-3 in the time tree table...

...frame "Digest" represents dynamic pages, content generation processing is started (step 1430). In more concrete, **character** **string** value of "s Digest Key" given as the parameter upon jumping is extracted (step 1431...

...CLAIMS output signal is designed to output an HTML tag indicating the representative image or a **character** **string** indicating a concerned event as a **character** **string** sandwiched between <A HREF = "another layout display"? parameter> and </A> for thereby allowing said representative image or said event to be automatically moved/displayed by clicking said sandwiched **character** **string** .
26. An image recording/playback apparatus according to claim 25,

wherein said fifth processing unit...

27/3,K/2   **(Item 2 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
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00651364
User adaptive system and method
Dem Benutzer anpassungsfahiges System und Verfahren
Systeme et methode d'adaptation a l'utilisateur
PATENT ASSIGNEE:
  Hitachi, Ltd., (204141), 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo
    101, (JP), (Proprietor designated states: all)
INVENTOR:
  Sumino, Shigeo, Raionzu Gaden Chofu Daini-205, 47 Tamagawa-1-chome,
    Chofu-shi, (JP)
  Miyatake, Takafumi, Hitachi Koyasudai Apato A204 , 32,
    Koyasumachi-2-chome, Hachioji-shi, (JP)
  Ueda, Hirotada, 22-49, Nishimachi-2-chome, Kokubunji-shi, (JP
LEGAL REPRESENTATIVE:
  Strehl Schubel-Hopf & Partner (100941), Maximilianstrasse 54, 80538
    Munchen, (DE)
PATENT (CC, No, Kind, Date):   EP 627683   A2   941207 (Basic)
                             EP 627683   A3   950405
                             EP 627683   B1   030730
APPLICATION (CC, No, Date):   EP 94108338 940530;
PRIORITY (CC, No, Date): JP 93129141 930531
DESIGNATED STATES: FR; GB; NL
INTERNATIONAL PATENT CLASS: G06F-009/44
ABSTRACT WORD COUNT: 106
NOTE:
  Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text   Language   Update   Word Count
      CLAIMS A   (English) EPABF2   496
      CLAIMS B   (English) 200331   439
      CLAIMS B   (German)   200331   400
      CLAIMS B   (French)   200331   524
      SPEC A   (English) EPABF2   5350
      SPEC B   (English) 200331   5375
Total word count - document A   5846
Total word count - document B   6738
Total word count - documents A + B   12584

INVENTOR:
... JP)
   Miyatake, Takafumi, Hitachi Koyasudai Apato A204 ...

...SPECIFICATION programs operating in a computer, there has been known a
   method of re-arranging candidate **character   strings** in a kana
   (Japanese syllabary)/kanji (Chinese character) conversion of a word
   processor. For example...

...namely, a kanji or an idiom previously used.
   However, these methods of re-arranging candidate **character   strings**
   have been devised in consideration only of a setting item, namely, a
   character   string currently being converted. Namely, in these methods,
   there has not been considered a case where...set a keyboard input values
   221 supplied from the keyboard 150, only when the inputted **character
   string** is numeric, the setting enabled values are subdivided according
   to an appropriate interval to assign...

...SPECIFICATION programs operating in a computer, there has been known a
   method of re-arranging candidate **character   strings** in a kana
   (Japanese syllabary)/kanji (Chinese character) conversion of a word
   processor. For example...

...namely, a kanji or an idiom previously used.
   However, these methods of re-arranging candidate **character   strings**
   have been devised in consideration only of a setting item, namely, a
   character   string currently being converted. Namely, in these methods,
   there has not been considered a case where...set a keyboard input values
   221 supplied from the keyboard 150, only when the inputted **character
   string** is numeric, the setting enabled values are subdivided according
   to an appropriate interval to assign...

...CLAIMS by typed in, setting enabled values according to an appropriate
      interval only when an input **character   string** is an integer;
         assigning selective items to each of the subdivided ranges;
         assuming the items...

...CLAIMS whereby the setting values are to be selected by a keyboard (150)
      when an input **character   string** (221) is an integer;
   treating the setting values selectable by keyboard as a set; and...

 27/3,K/3   (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00599493

System and method adaptive to user operation sequences
System und Verfahren, das sich einer Benutzeroperationsfolge anpasst
Systeme et methode s'adaptant a la sequence d'operations de l'utilisateur
PATENT ASSIGNEE:
  NEW MEDIA DEVELOPMENT ASSOCIATION, (2112351), 4-28, Mita 1-chome,
    Minato-ku, Tokyo, (JP), (applicant designated states: FR;GB;NL)
INVENTOR:
  Sumino, Shigeo, Raionzu Gaden Chofu II-205, 47, Tamagawa-1-chome,
    Chofu-shi, (JP)
  Miyatake, Takafumi, Hitachi Koyasudai Apato A204 , 32,
    Koyasumachi-2-chome, Hachioji-shi, (JP)
  Ueda, Hirotada, 22-49, Nishimachi-2-chome, Kokubunji-shi, (JP
LEGAL REPRESENTATIVE:
  Linn, Samuel Jonathan et al (73272), MEWBURN ELLIS York House 23 Kingsway
    , London WC2B 6HP, (GB)
PATENT (CC, No, Kind, Date):   EP 579501   A1   940119 (Basic)
                               EP 579501   B1   990414
APPLICATION (CC, No, Date):   EP 93305579 930715;
PRIORITY (CC, No, Date): JP 92187897 920715
DESIGNATED STATES: FR; GB; NL
INTERNATIONAL PATENT CLASS: G06F-009/44;
ABSTRACT WORD COUNT: 166

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text   Language   Update   Word Count
      CLAIMS B   (English)   9915   892
      CLAIMS B   (German)   9915   871
      CLAIMS B   (French)   9915   1018
      SPEC B   (English)   9915   10131
Total word count - document A   0
Total word count - document B   12912
Total word count - documents A + B   12912

INVENTOR:
... JP)
  Miyatake, Takafumi, Hitachi Koyasudai Apato A204 ...

...SPECIFICATION example of such a user adaptation, there has been an
  operation to re-arrange candidate **character   strings** in a kana-kanji
  (Japanese syllabary letters-Chinese characters) conversion software.
  According to a kanji...
?

38/3,K/1   (Item 1 from file: 348)

00594000
Automatic optimatization of photographic exposure parameters in fixed focus
cameras for the production of images of non-standard sizes and/or for
photography us
Automatische Optimierung von photographischen Belichtungsparametern in
Apparaten mit festgestellter Brennweite zur Erzeugung von Bildern
aussergewohnlicher Gros
Optimisation automatique des parametres d'exposition photographique dans
des appareils a longueur focale fixe pour la production d'images de
dimensions hors nor
PATENT ASSIGNEE:
  EASTMAN KODAK COMPANY, (201214), 343 State Street, Rochester, New York
    14650-2201, (US), (applicant designated states: DE;FR;GB)
INVENTOR:
  Wheeler, Richard Bruce, c/o Eastman Kodak Company, Patent Legal Staff,
    343 State Street, Rochester, New York 14650-2201, (US)
LEGAL REPRESENTATIVE:
  Lewandowsky, Klaus, Dipl.-Ing. (7581), Kodak Aktiengesellschaft,
    Patentabteilung, 70323 Stuttgart, (DE)
PATENT (CC, No, Kind, Date): EP 596416 A1 940511 (Basic)
                              EP 596416 B1 990210
APPLICATION (CC, No, Date):   EP 93117522 931028;
PRIORITY (CC, No, Date): US 971143 921103
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: G03B-007/08; G03B-017/24;
ABSTRACT WORD COUNT: 142

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9906	1087
CLAIMS B	(German)	9906	949
CLAIMS B	(French)	9906	1278
SPEC B	(English)	9906	46261
Total word count - document A			0
Total word count - document B			49575
Total word count - documents A + B			49575

38/3,K/2   (Item 2 from file: 348)

00593679
Automatic optimization of photographic exposure parameters for the
production of images of non-standard sizes and/or for photography using
modes with different
Automatische Optimierung von photographischen Belichtungsparametern zur
Erzeugung von Bildern aussergewohnlicher Grossen und/oder zum
Photographieren mit Betrie
Optimisation automatique des parametres d'exposition photographique pour la
production d'images de dimensions hors norme et/ou pour la photographie
utilisant de
PATENT ASSIGNEE:
  EASTMAN KODAK COMPANY, (201214), 343 State Street, Rochester, New York
    14650-2201, (US), (applicant designated states: DE;FR;GB)

INVENTOR:
   Wheeler, Richard Bruce, c/o Eastman Kodak Company, Patent Legal Staff,
      343 State Street, Rochester, New York 14650-2201, (US)
   Keelan, Brian William, c/o Eastman Kodak Company, Patent Legal Staff, 343
      State Street, Rochester, New York 14650-2201, (US)
LEGAL REPRESENTATIVE:
   Lewandowsky, Klaus, Dipl.-Ing. (7581), Kodak Aktiengesellschaft,
      Patentabteilung, 70323 Stuttgart, (DE)
PATENT (CC, No, Kind, Date): EP 596347 A1 940511 (Basic)
                              EP 596347 B1 990303
APPLICATION (CC, No, Date):   EP 93117164 931022;
PRIORITY (CC, No, Date): US 971026 921103
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: G03B-007/08; G03B-017/24;
ABSTRACT WORD COUNT: 142

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9909	804
CLAIMS B	(German)	9909	739
CLAIMS B	(French)	9909	948
SPEC B	(English)	9909	47966
Total word count – document A			0
Total word count – document B			50457
Total word count – documents A + B			50457

 38/3,K/3   (Item 1 from file: 349)

00935381   **Image available**
METHOD OF DETECTING A SIGNIFICANT CHANGE OF SCENE
PROCEDE PERMETTANT DE DETECTER UN CHANGEMENT SIGNIFICATIF DE SCENE
Patent Applicant/Assignee:
   SCYRON LIMITED, Philomel House, Sytchampton, Stourport-on-Severn,
      Worcestershire DY13 9TA, GB, GB (Residence), GB (Nationality), (For all
      designated states except: US)
Patent Applicant/Inventor:
   MANSFIELD Richard Louis, Philomel House, Sytchampton,
      Stourport-on-Severn, Worcestershire DY13 9TA, GB, GB (Residence), GB
      (Nationality), (Designated only for: US)
   FLOWERS Nicholas John, 180 Selly Wood Road, Bournville, Birmingham, West
      Midlands B30 1TJ, GB, GB (Residence), GB (Nationality), (Designated
      only for: US)
Legal Representative:
   JACKSON Derek Charles (agent), Derek Jackson Associates, The Old Yard,
      Lower Town, Claines, Worcester WR3 7RY, GB,
Patent and Priority Information (Country, Number, Date):
   Patent: WO 200269620 A1 20020906 (WO 0269620)
   Application: WO 2002GB762 20020221 (PCT/WO GB0200762)
   Priority Application: GB 20014922 20010228
Designated States:
(Protection type is "patent" unless otherwise stated – for applications
prior to 2004)
   AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
   EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
   LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
   SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
   (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Fulltext Availability:
  Detailed Description

Detailed Description
... as significant.

  Each new present weighted reference image 6 is formed on
  a pixel-by- **pixel** basis by multiplying the **intensity** of
  each **pixel** of the previous weighted reference image by
  the digital filter time constant, which may, for...

...minus
  0.9). The two resulting derived values are then added
  together to form the **pixel** **intensity** value for the new
  present weighted reference image. This process is
  carried out for each...

...in more recent events
  than in earlier events. In order for new objects in a
  scene to be **incorporated** into the present weighted
  reference image, they would need to be immobile for a
  period...
?

01549368
Document retrieval using index of reduced size
Verfahren und Einrichtung zum Wiederauffinden von Dokumenten mittels eines
    Indexes reduzierter Grosse
Procede et systeme de recouvrement de documents utilisant un index de
    taille reduite
PATENT ASSIGNEE:
  Ricoh Company, Ltd., (209037), 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo
    143-8555, (JP), (Applicant designated States: all)
INVENTOR:
  Ogawa, Yasushi, 510-20-311 Maedacho, Totsuka-ku, Yokohama-shi, Kanagawa,
    (JP)
LEGAL REPRESENTATIVE:
  Lamb, Martin John Carstairs (76021), MARKS & CLERK, 57-60 Lincoln's Inn
    Fields, London WC2A 3LS, (GB)
PATENT (CC, No, Kind, Date): EP 1288799 A2 030305 (Basic)
APPLICATION (CC, No, Date):   EP 2002255373 020731;
PRIORITY (CC, No, Date): JP 2001243854 010810
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
  IE; IT; LI; LU; MC; NL; PT; SE; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G06F-017/30
ABSTRACT WORD COUNT: 163
NOTE:
  Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200310	746
SPEC A	(English)	200310	7111
Total word count - document A			7857
Total word count - document B			0
Total word count - documents A + B			7857

...ABSTRACT more n-grams of the query character string in the n-gram index,
  and a **word** -based **search** unit which checks whether the query character
  string appears as word in the one or more identified registered documents
  by looking up one or more words of the query **character   string** in the
  word- **boundary** -position index, thereby identifying a registered document
  including the query character string as word.

...SPECIFICATION more n-grams of the query character string in said n-gram
  index, and a **word** -based **search** unit which checks whether the query
  character string appears as word in said one or more identified
  registered documents by looking up one or more words of the query
  character   string in said word- **boundary** -position index, thereby
  identifying a registered document including the query character string as
  word.
    In...

...CLAIMS more n-grams of the query character string in said n-gram index;
      and
  a **word** -based **search** unit which checks whether the query character
      string appears as word in said one or more identified registered
      documents by looking up one or more words of the query **character**

string in said word- **boundary** -position index, thereby identifying a
registered document including the query character string as word.
2...

41/3,K/2   (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00803573   **Image available**
METHOD OF AND APPARATUS FOR CLASSIFYING AN IMAGE
PROCEDE ET APPAREIL PERMETTANT DE CLASSIFIER DES IMAGES
Patent Applicant/Assignee:
  AT & T LABORATORIES-CAMBRIDGE LIMITED, 24A Trumpington Street, Cambridge,
    Cambridgeshire CB2 1QA, GB, GB (Residence), GB (Nationality), (For all
    designated states except: US)
Patent Applicant/Inventor:
  SINCLAIR David Andrew, 115 Ditton Walk, Cambridge, Cambridgeshire CB5 8DQ
    , GB, GB (Residence), GB (Nationality), (Designated only for: US)
  WOOD Kenneth Robert, 24A Trumpington Street, Cambridge, ·Cambridgeshire
    CB2 1QA, GB, GB (Residence), GB (Nationality), (Designated only for:
    US)
Legal Representative:
  ROBINSON John (agent), Marks & Clerk, 4220 Nash Court, Oxford Business
    Park South, Oxford, Oxfordshire OX4 2RU, GB,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200137131 A2-A3 20010525 (WO 0137131)
  Application: WO 2000GB4319 20001113 (PCT/WO GB0004319)
  Priority Application: US 99165681 19991116
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
  ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
  LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
  TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 6273

Fulltext Availability:
  Detailed Description

Detailed Description
... The string assembler 5 and the neural network or networks 6 produce a
  list of. **region   character   strings** or words which represent the
  visual content of each image in the image library 1...
...the character. strings, for example using standard text-indexing
  techniques such as those
  used in **word   search** engines, examples of which are AltaVista
  hj42://www.altavista.corn) and Google (http:Hwww.google...
?

44/3,K/1   **(Item 1 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office.. All rts. reserv.

01707184
Apparatus and method for recognizing character image from image screen
Vorrichtung und Verfahren zur Erkennung von Zeichenbildern auf einem
     Bildschirm
Appareil et procede de reconnaissance d'images de characteres a partir d'un
     ecran
PATENT ASSIGNEE:
  SAMSUNG ELECTRONICS CO., LTD., (1093728), 416, Maetan-dong, Paldal-gu,
    Suwon-City, Kyungki-do, (KR), (Applicant designated States: all)
INVENTOR:
  Lim, Chae-Whan, Samsung Electronics Co., Ltd. 416, Maetan-dong, Paldal-gu
    Suwon-city Kyungki-do, (KR)
  Seo, Jeong-Wook, Samsung Electronics Co., Ltd. 416, Maetan-dong,
    Paldal-gu Suwon-city Kyungki-do, (KR)
LEGAL REPRESENTATIVE:
  Lang, Johannes, Dipl.-Ing. et al (86394), Bardehle Pagenberg Dost
    Altenburg Geissler, Postfach 86 06 20, 81633 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 1398726 A1 040317 (Basic)
APPLICATION (CC, No, Date):   EP 2003019612 030904;
PRIORITY (CC, No, Date): KR 202055148 020911; KR 203053137 030731
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK
INTERNATIONAL PATENT CLASS: G06K-009/03; G06T-007/00
ABSTRACT WORD COUNT: 187
NOTE:
  Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text   Language   Update   Word Count
      CLAIMS A (English)   200412   2895
      SPEC A   (English)   200412   26536
Total word count - document A   29431
Total word count - document B   0
Total word count - documents A + B   29431

...SPECIFICATION binarization part 1210 classifies the blocks into the CBs
  and BBs and binarizes the block **image** pixels is to **detect** direction
  angles of **character** **strings** and hence detect a skew angle of an
  object for the image in the process...

...collectively converts pixels of the BBs outputted from the block
  classification part 1211 into background **pixels** having the second
  brightness value using the threshold value outputted from the threshold
  value calculation part 1215. The pixel decision part 1217 binarizes the
  pixels of the CBs into character **pixels** having the first **brightness**
  value and background **pixels** having the second **brightness** value on the
  basis of the threshold value, and then outputs the binarized pixels.
    FIG...

...brightness value of background pixels.
    When characters are recognized from the input image, stripes of
  character **strings** are extracted from the input image, direction angles
  are calculated according to skews of the...

...determined to be a skew angle, the image is rotated on the basis of the

determined skew angle. The **image** in which a skew of an object is corrected can be created. Furthermore, as **pixels** of a specific **pixel brightness** value are filled in a blank space formed at the comer of the image when...

44/3,K/2   (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00909145 ˙ **Image available**
PLANAR LASER ILLUMINATION AND IMAGING (PLIIM) SYSTEMS WITH INTEGRATED DESPECKLING MECHANISMS PROVIDED THEREIN
SYSTEMES PLIIM D'ILLUMINATION ET D'IMAGERIE AU LASER PLANAIRE A MECANISME DE DECHATOIEMENT INTEGRE
Patent Applicant/Assignee:
  METROLOGIC INSTRUMENTS INC, 90 Coles Road, Blackwood, NJ 08012, US, US (Residence), US (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  TSIKOS Constantine J, 65 Woodstone Drive, Voorhees, NJ 08043-4749, US, US (Residence), US (Nationality), (Designated only for: US)
  KNOWLES Carl Harry, 425 East Linden Street, Morrestown, NJ 08057, US, US (Residence), US (Nationality), (Designated only for: US)
  ZHU Xiaoxun, 669 Barton Run Boulevard, Marlton, NJ 08053, US, US (Residence), CN (Nationality), (Designated only for: US)
  SCHNEE Michael D, 41 Penns Court, Aston, PA 191014, US, US (Residence), US (Nationality), (Designated only for: US)
  AU Ka Man, 1224 Devereaux Avenue, Philadelphia, PA 19111, US, US (Residence), US (Nationality), (Designated only for: US)
  WIRTH Allan, 358 Concord Road, Bedford, MA 01730, US, US (Residence), US (Nationality), (Designated only for: US)
  GOOD Timothy A, 2041 Broad Acres Drive, Clementon, NJ 08021, US, US (Residence), US (Nationality), (Designated only for: US)
  JANKEVICS Andrew J, 80R Carlisle Road, Westford, MA 01886, US, US (Residence), US (Nationality), (Designated only for: US)
  GHOSH Sankar, Apartment #B27, 100 W. Oadk Lane, Glenolden, PA 19036, US, US (Residence), US (Nationality), (Designated only for: US)
  NAYLOR Charles A, 486 Center Street, Sewell, NJ 08080, US, US (Residence) , US (Nationality), (Designated only for: US)
  AMUNDSEN Thomas, 620 Glen Court, Turnersville, NJ 08012, US, US (Residence), US (Nationality), (Designated only for: US)
  BLAKE Robert, 762 Fairview Avenue, Woodbury Heights, NJ 08097, US, US (Residence), US (Nationality), (Designated only for: US)
  SVEDAS William, 515 Longwood Avenue, Deptford, NJ 08096, US, US (Residence), US (Nationality), (Designated only for: US)
  DEFONEY Shawn, 331 Fay Ann Court, Runnemede, NJ 08078, US, US (Residence) , US (Nationality), (Designated only for: US)
  SKYPALA Edward, 1501 Old Blackhorse Pike, Suite 0-2, Blackwood, NJ 08012, US, US (Residence), US (Nationality), (Designated only for: US)
  VATAN Pirooz, 5122 Lexington Ridge Drive, Lexington, MA 02421, US, US (Residence), US (Nationality), (Designated only for: US)
  DOBBS Russell Joseph, 4 Grass Road, Cherry Hill, NJ 08034, US, US (Residence), US (Nationality), (Designated only for: US)
  KOLIS George, 5037 Jackson Avenue, Pennsauken, NJ 08110, US, US (Residence), US (Nationality), (Designated only for: US)
  SCHMIDT Mark C, 1659 Woodland Drive, Williamstown, NJ 08094, US, US (Residence), US (Nationality), (Designated only for: US)
  YORSZ Jeffrey, 24 Fells Road, Winchester, MA 01890, US, US (Residence), US (Nationality), (Designated only for: US)
  GIORDANO Patrick A, 1501 Little Gloucester Road, Apartment #U-40, Blackwood, NJ 08012, US, US (Residence), US (Nationality), (Designated

only for: US)
  COLAVITO Stephen J, 3520 Edgewater Lane, Brookhaven, PA 19015-2607, US,
    US (Residence), US (Nationality), (Designated only for: US)
  WILZ David W Sr, 10 Orion Way, Sewell, NJ 08080, US, US (Residence), US
    (Nationality), (Designated only for: US)
  SCHWARTZ Barry E, 407 Farwood Road, Haddonfield, NJ 08033, US, US
    (Residence), US (Nationality), (Designated only for: US)
  KIM Steve Y, 129 Franklin Street, #113, Cambridge, MA 02139, US, US
    (Residence), US (Nationality), (Designated only for: US)
  FISCHER Dale, 204 Sunshire Lakes Drive, Voorhees, NJ 08043, US, US
    (Residence), US (Nationality), (Designated only for: US)
  VAN Tassel John E Jr, 8 Arbor Lane, Winchester, MA 01890, US, US
    (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
  PERKOWSKI Thomas J (et al) (agent), Thomas J. Perkowski, Esq., P.C.,
    Soundview Plaza, 1266 East Main Street, Stamford, CT 06902, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200243195 A2-A3 20020530 (WO 0243195)
  Application: WO 2001US44011 20011121 (PCT/WO US0144011)
  Priority Application: US 2000721885 20001124; US 2001780027 20010209; US
    2001781665 20010212; US 2001883130 20010615; US 2001954477 20010917; US
    2001999687 20011031
Parent Application/Grant:
  Related by Continuation to: US 2001954477 20010917 (CIP)
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
  EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL
  TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 298301

Fulltext Availability:
  Claims

Claim
... a schematic representation illustrating (i) the projection of a CCD
  image detection element (i.e. **pixel**) onto the object plane of the image
  formation and detection (IFD) module (i.e. camera...by the
  Auto-Focus/Auto-Zoom digital camera subsystem shown in Fig. 14, wherein
  each **pixel** element in each captured image frame is stored in a storage
  cell of the Camera...the illustrative embodiment of the
  Autofocus/auto-zoom digital camera subsystem, wherein for a given
  detected package height, the position of the focus and zoom lens group
  relative to the camera...

...schematic representation of an exemplary Photo-integration' Time Period
  Look-Up Table associated with CCD **image   detection** array employed in
  the auto-focus/auto-zoom digital camera subsystem of the PLIIN4-base...

...package height or velocity;
  Fig. 23A is a schematic representation of the PLIIM-based object
  identification and attribute acquisition system of Figs. 9 through 2213,
  shown performing Steps I through Step...

...graphical intelligence recognition taught in Figs. 23CI through 23C, whereby graphical intelligence (e.g. symbol **character strings** and/or bar code symbols) embodied or contained in 2-D images captured from arbitrary...

?

01155871
Method and apparatus for displaying imaging parameters
Verfahren und Vorrichtung zur Abbildung von Bildparametern
Procede et dispositif pour afficher des parametres d'image
PATENT ASSIGNEE:
  Agfa Corporation, (2664340), 100 Challenger Road, Ridgefield Park, NJ
    07660-2199, (US), (Applicant designated States: all)
INVENTOR:
  Allen, Roy D., 9 Corbett Drive, Burlington, MA 01803, (US)
  Romano, David J., 60 B Billerica Street, Lowell, MA 01852, (US)
  Hinds, Stephen C., 38 Sheridan Road, Andover, MA 01810, (US)
LEGAL REPRESENTATIVE:
  Van Ostaeyen, Marc Albert Jozef et al (86094), Agfa-Gevaert N.V., RDM/IP
    3806 76/01/23, Septestraat, 27, 2640 Mortsel, (BE)
PATENT (CC, No, Kind, Date): EP 1006712 A1 000607 (Basic)
APPLICATION (CC, No, Date):   EP 99124351 991206;
PRIORITY (CC, No, Date): US 206217 981205
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04N-001/60; H04N-001/40; **G06K-015/12**
ABSTRACT WORD COUNT: 254
NOTE:
  Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
     CLAIMS A (English)   200023   600
     SPEC A   (English)   200023   11392
Total word count - document A   11992
Total word count - document B   0
Total word count - documents A + B   11992

...INTERNATIONAL PATENT CLASS: **G06K-015/12**

...SPECIFICATION then selects an appropriate imaging parameter for
  operating the recording device or system by visually **comparing** the
  first and **second** portions of the recorded **visual** sensors 110. A
  preferred imaging parameter value or range of values is indicated when
  the **first** portion 115 and the **second** portion 120 of the recorded
  visual sensors 110 appear substantially **similar** . At non-preferred
  imaging parameter values or ranges of values the first and second
  portions...

00508413
SECURITY DEVICE
SICHERHEITSGERAT
DISPOSITIF DE SECURITE
PATENT ASSIGNEE:
  DE LA RUE HOLOGRAPHICS LIMITED, (1371172), 6 Agar Street, London WC2N 4DE

, (GB), (Proprietor designated states: all)
INVENTOR:
  EZRA, David, 19 Monks Mead, Brightwell-cum-Sotwell, Wallingford, Oxon
    OX10 0RL, (GB)
  ANDREASSEN, Jon, Waldmannstrasse 17, D-1000 Berlin 46, (DE)
  HOLMES, Brian William, Flat 3A, The Green, Twickenham, Middlesex TW2 5TU,
    (GB)
  DRINKWATER, Kenneth, John, 210 Arabella Drive, London SW15 5LQ, (GB)
LEGAL REPRESENTATIVE:
  Skone James, Robert Edmund et al (50281), GILL JENNINGS & EVERY Broadgate
    House 7 Eldon Street, London EC2M 7LH, (GB)
PATENT (CC, No, Kind, Date): EP 548142 A1 930630 (Basic)
                             EP 548142 B1 961127
                             EP 548142 B2 990929
                             WO 9204692   920319
APPLICATION (CC, No, Date): EP 91915975 910906; WO 91GB1525 910906
PRIORITY (CC, No, Date): GB 9019784 900910
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE
INTERNATIONAL PATENT CLASS: **G06K-019/16**
NOTE:
  No A-document published by EPO
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9939	548
CLAIMS B	(German)	9939	571
CLAIMS B	(French)	9939	626
SPEC B	(English)	9939	5027
Total word count – document A			0
Total word count – document B			6772
Total word count – documents A + B			6772

INTERNATIONAL PATENT CLASS: **G06K-019/16**

...SPECIFICATION also be incorporated in a passport, visa, identity card or
  licence. Optionally the information in **the** machine **readable** image
  could vary from the **visual   image** (e.g. batch encoded over a small
  number of variations) for use as an additional...bandwidth or less and
  must emit at a wavelength substantially different from that of the **first
    source** . The **second** source is preferably **a** narrow band near
  infrared source such as is emitted from an infrared emitting diode and...
?

```
File    9:Business & Industry(R) Jul/1994-2005/Oct 10
          (c) 2005   The Gale Group
File   15:ABI/Inform(R) 1971-2005/Oct 11
          (c) 2005 ProQuest Info&Learning
File   16:Gale Group PROMT(R) 1990-2005/Oct 10
          (c) 2005 The Gale Group
File   20:Dialog Global Reporter 1997-2005/Oct 11
          (c) 2005 Dialog
File   47:Gale Group Magazine DB(TM) 1959-2005/Oct 11
          (c) 2005 The Gale group
File   75:TGG Management Contents(R) 86-2005/Oct W1
          (c) 2005 The Gale Group
File   80:TGG Aerospace/Def.Mkts(R) 1982-2005/Oct 10
          (c) 2005 The Gale Group
File   88:Gale Group Business A.R.T.S. 1976-2005/Oct 11
          (c) 2005 The Gale Group
File   98:General Sci Abs/Full-Text 1984-2004/Dec
          (c) 2005 The HW Wilson Co.
File  112:UBM Industry News 1998-2004/Jan 27
          (c) 2004 United Business Media
File  141:Readers Guide 1983-2004/Dec
          (c) 2005 The HW Wilson Co
File  148:Gale Group Trade & Industry DB 1976-2005/Oct 11
          (c)2005 The Gale Group
File  160:Gale Group PROMT(R) 1972-1989
          (c) 1999 The Gale Group
File  275:Gale Group Computer DB(TM) 1983-2005/Oct 10
          (c) 2005 The Gale Group
File  264:DIALOG Defense Newsletters 1989-2005/Oct 10
          (c) 2005 Dialog
File  484:Periodical Abs Plustext 1986-2005/Oct W1
          (c) 2005 ProQuest
File  553:Wilson Bus. Abs. FullText 1982-2004/Dec
          (c) 2005 The HW Wilson Co
File  570:Gale Group MARS(R) 1984-2005/Oct 10
          (c) 2005 The Gale Group
File  608:KR/T Bus.News. 1992-2005/Oct 11
          (c)2005 Knight Ridder/Tribune Bus News
File  620:EIU:Viewswire 2005/Oct 10
          (c) 2005 Economist Intelligence Unit
File  613:PR Newswire 1999-2005/Oct 11
          (c) 2005 PR Newswire Association Inc
File  621:Gale Group New Prod.Annou.(R) 1985-2005/Oct 11
          (c) 2005 The Gale Group
File  623:Business Week 1985-2005/Oct 06
          (c) 2005 The McGraw-Hill Companies Inc
File  624:McGraw-Hill Publications 1985-2005/Oct 11
          (c) 2005 McGraw-Hill Co. Inc
File  634:San Jose Mercury  Jun 1985-2005/Oct 10
          (c) 2005 San Jose Mercury News
File  635:Business Dateline(R) 1985-2005/Oct 11
          (c) 2005 ProQuest Info&Learning
File  636:Gale Group Newsletter DB(TM) 1987-2005/Oct 10
          (c) 2005 The Gale Group
File  647:CMP  Computer Fulltext 1988-2005/Sep W4
          (c) 2005 CMP Media, LLC
File  674:Computer News Fulltext 1989-2005/Oct W2
          (c) 2005 IDG Communications
File  810:Business Wire 1986-1999/Feb 28
          (c) 1999 Business Wire
File  813:PR Newswire 1987-1999/Apr 30
```

File 587:Jane's Defense&Aerospace 2005/Oct W1

Set	Items	Description
S1	17361	(TEXT OR ALPHABET OR CHARACTER?? OR LETTERS)(3N)STRING??
S2	669	S1(3N)(FEATURE? OR PARAMETER? OR VALUE? OR CHARACTERISTICS OR SHAPE? OR VISUAL? OR SHAPING)
S3	15434450	LINE OR LINES
S4	200325	PIXEL? OR PEL OR PICTURE()ELEMENT?
S5	4833	S4(5N)(LUMINENCE? OR BRIGHT? OR HUE?? OR EQUI()LUMINENCE? - OR EQUILUMINENCE? OR INTENSIT?)
S6	79194	SEARCH?(3N)(KEYWORD? OR KEY()WORD? OR WORDS OR WORD)
S7	202	S1(3N)(HIGHLIGHT? OR HIGH()LIGHT? OR BOX OR THUMBNAIL OR E-XPAND? OR ENLARG?)
S8	1381	FLIP(3N)CARD??
S9	32571	(DETERMINE? OR DISCERN? OR DETECT? OR DISTINGUISH? OR IDEN-TIF?)(3N)IMAGE??
S10	80	S1(3N)(REGIONS OR REGION OR RANGE? OR ZONES OR ZONE OR BOU-NDARY OR BOUNDARIES OR EDGES OR EDGE)
S11	5326	(EMBED? OR INSIDE OR INCORP?)(3N)SCENE??
S12	37678	S3(3N)(HORIZONTAL? OR VERTICAL? OR XY)
S13	0	EXTRACT?(3N)S2(3N)FIRST(5N)SECOND(5N)(COMPAR? OR MATCH? OR SIMILAR OR LIKENESS)
S14	53444	S3(3N)(WIDTH? OR SIZE?)
S15	25	AU=(NAGASAKA, A? OR MIYATAKE, T? OR NAGASAKA A? OR MIYATAKE T?)
S16	2	S6(S)S10
S17	2	RD S16 (unique items)
S18	29	(S2 OR S7)(3N)(S3 OR S12 OR S14)
S19	0	S18(S)(S4 OR S5)
S20	29	S18 NOT S16
S21	0	S20 AND PY=2002:2005
S22	18	RD S20 (unique items)
S23	0	S6(S)S11
S24	0	S5(S)S6
S25	0	S1(S)S8
S26	349	S1(S)VIDEO
S27	0	S26(S)S5
S28	12	S26(S)S4
S29	8	RD S28 (unique items)
S30	36	S14(S)S1
S31	0	S30(S)S6
S32	4	S30(S)S4
S33	1	RD S32 (unique items)
S34	0	S1 AND S15
S35	0	S15 AND S14

17/3,K/1   (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01366928   SUPPLIER NUMBER: 08695910   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Release 3 treasure hunt: part 1. (useful features in Lotus 1-2-3 3.0)(part
   1) (tutorial)
Bookbinder, David J.
Lotus, v6, n8, p66(2)
August, 1990
DOCUMENT TYPE: tutorial   ISSN: 8756-7334   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2025   LINE COUNT: 00148

...   Range Search command makes it a snap to find or change every
occurrence of a **character   string** .
     The **Range** Search command is akin to the search and
search-and-replace commands found in most **word** processors. Select /Range
Search , and Release 3 prompts you for a search range and a search string.
After entering...

17/3,K/2   (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01228254   SUPPLIER NUMBER: 06552000
Connections made clear with textbase package; tool lets users step back and
   see patterns buried in database. (Ize text database management system
   from Persoft Inc.) (Software Review) (evaluation)
Perez, Ernest
InfoWorld, v10, n32, p59(2)
August 8, 1988
DOCUMENT TYPE: evaluation   ISSN: 0199-6649   LANGUAGE: ENGLISH
RECORD TYPE: ABSTRACT

...ABSTRACT: form by keyword. The program indexes keywords assigned by the
user, and, in addition to **keyword** search, it can **search** non- **keyword**
text   strings , for dates or **ranges** of dates, or for fuzzy keywords.
Using Ize means first setting up the database and...
?

22/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)

01777468 04-28459
Instant data marts
Angus, Jeff
Informationweek n721 PP: 85-94 Feb 15, 1999
ISSN: 8750-6874 JRNL CODE: IWK
WORD COUNT: 1942

...TEXT: is very flexible. Cambio can recognize by column or by "word" (up
to 20 unbroken **strings** of **characters** per **line**). This **feature** set is
more than enough to deal with clean reports, and enough to process reports
...

22/3,K/2 (Item 2 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)

00768195 94-17587
Free megabytes of space by easily deleting all the swap files
Merenbloom, Paul
InfoWorld v15n38 PP: 45 Sep 20, 1993
ISSN: 0199-6649 JRNL CODE: IFW
WORD COUNT: 680

...TEXT: list each file's complete path in an output file. I use the FF
advanced **features** to preappend the **string** and postappend **text**
&&& to each **line** .

The output is then saved to a .BAT file and loaded into an editor with...

22/3,K/3 (Item 3 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)

00727016 93-76237
Mac Monitor: Enhancing Online Access Through Keyboard Mapping
Valauskas, Edward J.
Online v16n4 PP: 83-84 Jul 1992
ISSN: 0146-5422 JRNL CODE: ONL
WORD COUNT: 1570

...TEXT: Send Text String "! carriage return"

Wait for Line Containing "DELETED"

Send Text from Dialog Box " **Line** to add"

Send **Text** **String** "690-a"

Send **Text** from Dialog **Box** "Subject."

Similar operations can be created in scripts to modify call number,
geographic, and other...

22/3,K/4   (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

06133690   Supplier Number: 53883139 (USE FORMAT 7 FOR FULLTEXT)
**Instant Data Marts -- Datawatch's Monarch 4 and Data Junction's Cambio 6.5
  both recycle legacy data, making it more accessible to the users who
  really need it.(Monarch 4.0 report generation software, Cambio 6.5 DBMS
  utility)(Evaluation)**
Angus, Jeff
InformationWeek, p85(1)
Feb 15, 1999
Language: English   Record Type: Fulltext
Article Type: Evaluation
Document Type: Magazine/Journal; Tabloid; General Trade
Word Count: 2030

...   is very flexible. Cambio can recognize by column or by "word" (up
to 20 unbroken **strings** of **characters** per **line**). This **feature** set is
more than enough to deal with clean reports, and enough to process reports
...

22/3,K/5   (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter

15659907   (USE FORMAT 7 OR 9 FOR FULLTEXT)
**Reviews: Classical: Human   puppets   at   the   Royal   Court:
   Philharmonia/Svetlanov: Royal Festival Hall, London/Radio 3 (4/5 stars)**
ANDREW CLEMENTS
GUARDIAN
March 17, 2001
JOURNAL CODE: FGDN   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 340

   (USE FORMAT 7 OR 9 FOR FULLTEXT)

...   too tight a leash with rubato strictly rationed, it was the way the
climaxes were **shaped** , and the sinuous **characters** of the **string   lines**
, almost recalling Rimsky's Sheherazade, that caught the ear. For once La
Mer lived up...

22/3,K/6   (Item 2 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter

15653407   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Classical Philharmonia/Svetlanov Royal Festival Hall, London/Radio 3
ANDREW CLEMENTS
GUARDIAN
March 17, 2001
JOURNAL CODE: FGDN   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 349

   (USE FORMAT 7 OR 9 FOR FULLTEXT)

...   too tight a leash with rubato strictly rationed, it was the way the
climaxes were **shaped** , and the sinuous **characters** of the **string   lines**

, almost recalling Rimsky's Sheherazade, that caught the ear. For once La Mer lived up...

22/3,K/7   (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)

03962124   SUPPLIER NUMBER: 14457632   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Writing DOS utilities with DEBUG, part 4. (Tutor)(column) (Tutorial)
Prosise, Jeff
PC Magazine, v12, n19, p327(3)
Nov 9, 1993
DOCUMENT TYPE: Tutorial   ISSN: 0888-8507   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1450   LINE COUNT: 00112

TEXT:
     ...learn how to incorporate logic into your assembly programs so that they can read command **line   parameters** -- **text   strings** typed on the command line following the program name.

22/3,K/8   (Item 2 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)

03809426 ·   SUPPLIER NUMBER: 12394857   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Enhancing online access through keyboard mapping. (Macintosh computer)
Valauskas, Edward J.
Online Magazine, v16, n4, p83(2)
July, 1992
CODEN: ONLID   ISSN: 0146-5422   LANGUAGE: ENGLISH   RECORD TYPE:
   FULLTEXT; ABSTRACT
WORD COUNT: 1691   LINE COUNT: 00132

...   Send Text String "] carriage return" Wait for Line Containing
"DELETED" Send Text from Dialog Box " **Line** # to add" Send **Text   String**
"690 a" Send **Text** from Dialog **Box** "Subject."
     Similar operations can be created in scripts to modify call number, geographic, and other...

22/3,K/9   (Item 3 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)

03466056   SUPPLIER NUMBER: 09485345   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**FrameMaker: long-document publishing power finally comes to the Mac in a
   powerhouse program. (Frame Technology's desktop publishing program)
   (includes a related article on transferring FrameMaker files between
   Macintoshes and Unix-based systems) (Software Review) (evaluation)**
Wasson, Gregory
MacUser, v6, n11, p54(3)
Nov, 1990
DOCUMENT TYPE: evaluation   ISSN: 0884-0997   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2304   LINE COUNT: 00183

...   end of a sentence. You can apply smart quotes and indicate where

FrameMaker can break **lines** without hyphenating a **text string** (a wonderful **feature** for documents that include things such as DOS pathnames). FrameMaker also has powerful GREP-like...

22/3,K/10   (Item 4 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM) .
(c) 2005 The Gale group. All rts. reserv.

03223753   SUPPLIER NUMBER: 06948050   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Help file. (Miscellaneous statements in BASIC)
Rubenking, Neil J.
PC Magazine, v8, n3, p285(1)
Feb 14, 1989
ISSN: 0888-8507   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT
WORD COUNT: 526   LINE COUNT: 00042

...   KEY -- Set or display the soft keys SYNTAX: KEY ON/OFF/LIST -- or
-- KEY n, **string** ON = first six **characters** of soft key **values**
displayed on 25th **line** OFF = soft key values not displayed. Line 25 does
not scroll even with KEY OFF...

22/3,K/11   (Item 5 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2005 The Gale group. All rts. reserv.

02512595   SUPPLIER NUMBER: 03243886   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Micro-based business graphics.
Cooper, Michael S.
Datamation, v30, p99(5)
May 1, 1984
CODEN: DTMNA   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT
WORD COUNT: 2396   LINE COUNT: 00187

...   is also the IBM X/Y 749) can generate straight lines, circles,
arcs, axes and **values** , six fonts, **character** and **string** rotation,
line textures, fill patterns, scaling, and windowing. This set of
capabilities is typical of plotters and...

22/3,K/12   (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01689860   SUPPLIER NUMBER: 15562717   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Text composition and page layout. (various product announcements,
   developments in DTP software) (Special Report: Seybold Seminars Boston
   '94, Part II) (Product Announcement)
Seybold Report on Publishing Systems, v23, n16, pS63(8)
May 10, 1994
DOCUMENT TYPE: Product Announcement   ISSN: 0736-7260   LANGUAGE:
   ENGLISH   RECORD TYPE: FULLTEXT
WORD COUNT: 8326   LINE COUNT: 00638

...   text block and manipulate it like a graphic, and a size-to-fit
style that **expands** a **text string** to fill the **line** measure. The
size -to-fit feature also can be applied to a block of text being fit in...

22/3,K/13   (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01624995   SUPPLIER NUMBER: 14483440   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Color systems and commercial composition at IPEX '93. (international
  printing exhibition in Birmingham, U.K.) (includes related article)**
Dyson, Peter E.; Smith, Patricia J.; Tribute, Andrew; Walter, Mark
Seybold Report on Publishing Systems, v23, n5, p3(27)
Nov 1, 1993
ISSN: 0736-7260   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT
WORD COUNT: 24014   LINE COUNT: 01843

...   automatically size to text, and another that gives users the
ability to have one line **shared** between two text **strings** , **a** handy
feature **in** list work with tight space constraints. Serif has also
developed a program for importing PostScript...

22/3,K/14   (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01424787   SUPPLIER NUMBER: 10480030   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Word-wrap a character string. (solution to a programming problem)
  (tutorial)**
Rubel, Mac
Data Based Advisor, v9, n3, p30(2)
March, 1991
DOCUMENT TYPE: tutorial   ISSN: 0740-5200   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1071   LINE COUNT: 00074

...   B--The MLCOUNT function tells how many lines of a
      given length exist in a **character   string**
      FUNCTION mlcount **PARAMETERS** m string, **line** len PRIVATE M STRING,
pass str, line len, num lines PRIVATE i * Note: Returns the...

22/3,K/15   (Item 4 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01086640   SUPPLIER NUMBER: 00583038
'C' User Notes.
Pass, E. M.
68 Micro Journal, v6, n11, p14-18
Nov., 1984
DOCUMENT TYPE: column   ISSN: 0194-5025   LANGUAGE: ENGLISH
RECORD TYPE: ABSTRACT

...ABSTRACT: C compiler for the Flex operating system will not support
backspace or line delete on **line** -oriented input. **Expanded   strings**
longer than 127 **characters** are not allowed on any McCosh C compilers.
McCosh C compilers will also allow crossed...

22/3,K/16   (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

04056804   Supplier Number: 53606723 (USE FORMAT 7 FOR FULLTEXT)
A BOX WITH A KEYBOARD.
Bushnell, Bob
Sound & Video Contractor, pNA(1)
Dec 98, 1998
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Newsletter; Trade
Word Count: 1725

...   use the wrong syntax. Parsing the sentence, the word "place"
advises that an object-a **box** , **line** , **text   string** , dimension **liné**
or title box-will be placed on screen. "Rectangle" establishes the object's
identity. "Four...

22/3,K/17   (Item 1 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 2005 CMP Media, LLC. All rts. reserv.

01184974   CMP ACCESSION NUMBER: IWK19990215S0030
**Instant Data Marts - Datawatch's Monarch 4 And Data Junction's Cambio 6.5
   Both Recycle Legacy Data, Making It More Accessible To The Users Who
   Really Need It**
Jeff Angus
INFORMATIONWEEK, 1999, n 721, PG85
PUBLICATION DATE: 990215
JOURNAL CODE: IWK   LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: InformationWeek Labs
WORD COUNT: 2043

...   is very flexible. Cambio can recognize by column or by "word" (up
to 20 unbroken **strings** of **characters** per **line**). This **feature** set
is more than enough to deal with clean reports, and enough to process
reports...

22/3,K/18   (Item 2 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 2005 CMP Media, LLC. All rts. reserv.

00515926 · CMP ACCESSION NUMBER: WIN19920501S0075
WORD PROCESSING
WINDOWS MAGAZINE, 1992, n 304 , 20
PUBLICATION DATE: 920501
JOURNAL CODE: WIN   LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: New Products
WORD COUNT: 4020

...   Server.
    You control The DataTable through a C Language application program
interface. Formatting includes fill **characters** , literal **text** , **string**
and numeric **values** . Display features include **horizontal** and **vertical**
grid **lines** , row and column selection, column resizing, intra-cell
editing, column and row titles and hidden...
?

29/3,K/1   (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

05110060   Supplier Number: 47802519   (USE FORMAT 7 FOR FULLTEXT)
GO SPEED RAZOR GO!, Part 2
GREY, KENNEDY
Interactivity, p54
July, 1997
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 949

...   48MB RAM minimum (64 recommended). CD-ROM drive. Mouse.
     Features
     Compatibility with wide range of **video** boards and A4V and DPS
effects accelerator cards. Automated setup according to system hardware.
Unlimited **video** and audio tracks. Four realtime audio tracks. Onboard
titling with anti-aliased and field-rendered...

...or 3600). 3D DVE. Project management tools including automatic separate
folders for storage of audio, **video** , and Speed Razor work files. Disk
management tools including ability to specify a series of...

...Kinetix 3D Studio Max, and Microsoft Softimage. Image
stabilization/correction. Frame sizes up to 4000x4000 **pixels** . Automatic
reload of last edit in case of accidental exit. Effects: glow alpha,
arrows, B...

...black or white, freeze, gamma, glass texture, glow, turn green/blue/red,
invert, loop, matte, **pixelate** , raindrop, strobing, transparency, tint,
twirl, trailing. Transitions and bumpmaps: clock wipe, crossfade, cut to
field...

...fuzz, grass, hills, leaves, leopard, petals, picksticks, prints,
ripples, skull, slats, sleet, smoke, star, stone, **strings** , teeth, **text** ,
weave, web, weird, woman face, wheat, worms, wrinkles.
     File Support
     ANI, AVI, BMP, DIB, DVM...

29/3,K/2   (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2005 The Gale group. All rts. reserv.

03086887   SUPPLIER NUMBER: 06682637   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Advanced graphics in Basic. (PC Lab Notes) (Productivity)
Winer, Ethan; Giedt, Brian
PC Magazine, v7, n11, p279(9)
June 14, 1988
ISSN: 0888-8507   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT
WORD COUNT: 4848   LINE COUNT: 00351

...   the string for a tiling operation, however, it is important to
begin by understanding how **video** memory is organized in the several
popular graphics screen modes. Each **pixel** on the display screen has a
corresponding memory location that holds that portion of the...

29/3,K/3   (Item 1 from file: 88)

02081414 . SUPPLIER NUMBER: 07075873
Pixel panning and split screens. (overlooked virtues of the VGA)
(technical)
Wilton, Richard
PC Tech Journal, v6, n11, p62(8)
Nov, 1988
DOCUMENT TYPE: technical   ISSN: 0738-0194   LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 4031   LINE COUNT: 00361

...   the "Hello, there" string in the video buffer. This includes one
attribute byte for each **character** in the **string** and accounts for the
trailing blank at the end of the string. In 640-by-200- **pixel** two-color
graphics mode (which is invoked using SCREEN 2 in BASIC), the same string
is represented in 104 bytes of data (13 characters times 8 bytes per
character). Displaying the same **string** in the VGA's 640-by-480- **pixel**
16-color mode would require 832 bytes of data (13 characters times 16 bytes
per...

29/3,K/4   (Item 2 from file: 88)

02081413   SUPPLIER NUMBER: 07075729
The VGA compatibility test. (Video Graphics Array) (Hardware Review)
(evaluation)
McNierney, Ed; Quirk, Kent
PC Tech Journal, v6, n11, p48(10)
Nov, 1988
DOCUMENT TYPE: evaluation   ISSN: 0738-0194   LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 5672   LINE COUNT: 00535

...   examine all BIOS text I/O. The text I/O test is performed in
several **video** modes using function 0 (select **video** mode) to choose
among modes. Overscan control. The display adapter's overscan color for 16
...

...VGA, one of the compatibility tests in the evaluation suite evaluates
BIOS functions 0CH (write **pixel**) and 0DH (read **pixel**). Every **pixel** on
the screen is drawn and every possible **pixel** value available in the
current **video** mode is used; then each **pixel** is read back to ensure that
the correct value was written. For all but the 256-color graphics mode,
pixels written can either replace the display-buffer data or be
exclusive-or merged with it...

...both modes of writing to the screen. Mode inquiry. The mode-inquiry
function 0FH (get **video** status) provides the current **video** mode, active
video page, and number of text columns on the display. The test for this
function validates the values returned by the function, including that of
the active **video** page when multiple pages of display memory are in use.
Palette-register control. BIOS function...

...variety of palette-register control operations. Individual palette
registers, digital-to-analog converter (DAC) registers, **video** -DAC-mask
registers, and the display's overscan color can be programmed or read

either...

...in the VGA's ROM (8-by-8, 8-by-14, and 8-by-16 **pixels**) can be selected
as the active character font for the display, or a user-defined...

 29/3,K/5   (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.

02035936
SOLID STATE AND NEMA 4 INDUSTRIAL TERMINALS WITH TOUCH
News Release   June 18, 1988   p. 1

    ... by 12 line double high/double wide text and complete bitmapped
graphics. Graphics support includes **pixel** , continuous **pixel** , line,
continuous line, circle, arc, rectangle and fill and shade polygon. There
are two **video** pages of memory, "XORing" of the graphic commands for
"animated" applications and capacity to hold 16k bytes of software
"macros". Macros allows the developer to download up to 96 separate **text**
 and graphic command **strings** , which can be recalled at a latter time with
a simple command.
    Full text available...

 29/3,K/6   (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01381010   SUPPLIER NUMBER: 09558899   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Amazing multicolour library, part II. (programming a library of routines to
  drive the 256-color modes of Super-VGA graphics cards) (tutorial)**
Webster, Graeme
EXE, v5, n5, p44(5)
Oct, 1990
DOCUMENT TYPE: tutorial   ISSN: 0268-6872   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1705   LINE COUNT: 00129

...ABSTRACT: text mode, and controlling memory bank switching. The new
routines enable the address of individual **pixels** , line drawing, setting a
palette register, and output of **character strings** in the graphics mode.
Details of the development and functioning of the routines are discussed.

 29/3,K/7   (Item 1 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 2005 CMP Media, LLC. All rts. reserv.

01022628   CMP ACCESSION NUMBER: WIN19940501S2365
Matrox MGA Ultima - PCI Powered Graphics
John Gartner
WINDOWS MAGAZINE, 1994, n 505 , 140
PUBLICATION DATE: 940501
JOURNAL CODE: WIN   LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: First Impressions

TEXT:
    The Matrox MGA Ultima PCI graphics adapter revs up Windows' **video**

like an Indy racecar, but its unstable **video** drivers may cause an undue number of spinouts. The MGA Ultima comprises a powerful graphics...

...ultimately crashing. Also, enabling ModeSwitch significantly slows graphics performance compared with single resolution operations. The **PixelTouch** zoom feature lets you magnify a selected area of the screen two to four times. This is useful for expanding a Microsoft **Video** square, which is ordinarily limited to a 160x120- **pixel** window. It can be used for image editing too, but most programs include their own zoom options. The base MGA Ultima comes with 2MB of **video** RAM, which provides a maximum of 32,000 colors at 1024x768 resolution. An expandable version ($699) accommodates an additional 2MB of **video** RAM for increased color depth. (Matrox also markets a VL-bus version of the Ultima...

...PostScript applications or files. Common Ground lets you view .DP files and search them for **text strings** . You can zoom in and out, as well as copy text or graphics sections to...

...to indicate the location of text and graphics. Because the data is separated, searching for **text strings** is fast. Color reproduction from a Freelance slide was good, although the gradients didn't...

29/3,K/8   (Item 1 from file: 587)
DIALOG(R)File 587:Jane`s Defense&Aerospace
(c) 2005 Jane`s Information Group. All rts. reserv.

10919766   Word Count:800
Highly efficient imagery/video compression for UAVs
INTERNATIONAL DEFENSE REVIEW (IDR) August 1, 2003 v.036 no. 008
Section Heading: WEAPONS & EQUIPMENT

...Vehicle Battlelab (UAVB) has
demonstrated substantially improved performance during trials
conducted under its Digital Imagery & **Video** Compression (DI&VC)
initiative, employing a multipass process developed by eTreppid
Technologies that can compress...

...to an
operator or analyst. By comparison, one second's worth of
uncompressed full-motion **video** running at 30 frames per second, with
each frame containing 640x480 **pixels** of 24-bit color information,
would require approximately 211Mbit/s of communication bandwidth for
transmission...

...with
traditional approaches. It can also further compress already
compressed data such as MPEG-2 **video** files. Upon decompression, the
resulting data are mathematically identical to the source.

A 'lossy' compression...

...pass.

During the trials in February, the process required 24 such passes
to compress 640x480- **pixel** eight-bit grayscale imagery so that it
could be transmitted at 56kbit/s, compared with 35.2Mbit/s for the
uncompressed version. A trained imagery intelligence analyst, who
observed the **video** before and after compression, assessed the
difference as being 0.5 or less on the...

...from zero to
nine).

The algorithm operates on still imagery at the same time as **video** .
Individual 640x480- **pixel** still images, extracted from the **video**
stream, are compressed from 300kbytes to 3kbytes. The results were
measured against the JPEG-2000...

...be implemented
within NIMA's existing standards. The battlelab's interim report
concludes: "Digital Imagery & **Video** Compression has demonstrated a
unique capability, and should be considered by the [Department of
Defense...

...potential applications of the algorithm range from e-mail to
real-time processes such as **video** -conferencing. It can handle 3DES-
encrypted aggregate streams of compressed **video** and data, providing
another layer of protection against inadvertent access to sensitive
information, and allows...

...data while
it is in a compressed state. For example, all occurrences of a
selected **text** **string** in a database can be located while the entire
database remains compressed.

...
?

03888096   SUPPLIER NUMBER: 13762056   (USE FORMAT 7 OR 9 FOR FULL TEXT)
OS/2 paths and fonts: the versatile connection. (the OS/2 Graphics
  Programming Interface supports use of character outlines for other
  purposes) (Environments)(Column) (Tutorial)
Petzold, Charles
PC Magazine, v12, n11, p347(7)
June 15, 1993
DOCUMENT TYPE: Tutorial   ISSN: 0888-8507   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2677   LINE COUNT: 00202

...   do, it creates a 144-point Times New Roman Italic font and draws
the "Hello!" **text** **string** within a path bracket. OLFWIDE then calls
GpiSetLineWidthGeom to set the geometric **line** **width** at 10 **pixels** . (In
a real program, you'd want to use a more device-independent approach to...

...vertical lines--and calls GpiStrokePath. This renders the font outlines
as a series of 10- **pixel** -wide lines filled with the PATSYM...
?

```
File    2:INSPEC 1969-2005/Oct W1
         (c) 2005 Institution of Electrical Engineers
File    6:NTIS 1964-2005/Sep W4
         (c) 2005 NTIS, Intl Cpyrght All Rights Res
File    8:Ei Compendex(R) 1970-2005/Oct W1
         (c) 2005 Elsevier Eng.  Info. Inc.
File   34:SciSearch(R) Cited Ref Sci 1990-2005/Oct W1
         (c) 2005 Inst for Sci Info
File   35:Dissertation Abs Online 1861-2005/Sep
         (c) 2005 ProQuest Info&Learning
File   65:Inside Conferences 1993-2005/Oct W2
         (c) 2005 BLDSC all rts. reserv.
File   94:JICST-EPlus 1985-2005/Aug W2
         (c)2005 Japan Science and Tech Corp(JST)
File   95:TEME-Technology & Management 1989-2005/Sep W1
         (c) 2005 FIZ TECHNIK
File   99:Wilson Appl. Sci & Tech Abs 1983-2005/Sep
         (c) 2005 The HW Wilson Co.
File  144:Pascal 1973-2005/Oct W1
         (c) 2005 INIST/CNRS
File  434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File  583:Gale Group Globalbase(TM) 1986-2002/Dec 13
         (c) 2002 The Gale Group
File  603:Newspaper Abstracts 1984-1988
         (c)2001 ProQuest Info&Learning
File  483:Newspaper Abs Daily 1986-2005/Oct 10
         (c) 2005 ProQuest Info&Learning
File  248:PIRA 1975-2005/Sep W3
         (c) 2005 Pira International
```

Set	Items	Description
S1	5305	(ALPHABET OR CHARACTER?? OR LETTERS)(3N)STRING??
S2	1509	S1 AND (FEATURE? OR PARAMETER? OR VALUE? OR CHARACTERISTICS OR SHAPE? OR VISUAL? OR SHAPING)
S3	3024138	LINE OR LINES
S4	150777	PIXEL? OR PEL OR PICTURE()ELEMENT?
S5	16583	S4 AND (LUMINENCE? OR BRIGHT? OR HUE?? OR EQUI()LUMINENCE? OR EQUILUMINENCE? OR INTENSIT?)
S6	5474	SEARCH?(3N)(KEYWORD? OR KEY()WORD? OR WORDS OR WORD)
S7	89	S1 AND (HIGHLIGHT? OR HIGH()LIGHT? OR BOX OR THUMBNAIL OR – EXPAND? OR ENLARG?)
S8	84	FLIP(3N)CARD??
S9	87484	(DETERMINE? OR DISCERN? OR DETECT? OR DISTINGUISH? OR IDEN-TIF?)(3N)IMAGE??
S10	52	S1(3N)(REGIONS OR REGION OR RANGE? OR ZONES OR ZONE OR BOU-NDARY OR BOUNDARIES OR EDGES OR EDGE)
S11	645	(EMBED? OR INSIDE OR INCORP?)(3N)SCENE??
S12	67085	S3 AND (HORIZONTAL? OR VERTICAL? OR XY)
S13	5	EXTRACT?(3N)S2 AND FIRST AND SECOND AND (COMPAR? OR MATCH? OR SIMILAR OR LIKENESS)
S14	63411	S3(3N)(WIDTH? OR SIZE?)
S15	2483	AU=(NAGASAKA, A? OR MIYATAKE, T? OR NAGASAKA A? OR MIYATAKE T?)
S16	5	RD S13 (unique items)
S17	0	S15 AND S5
S18	0	S15 AND S2
S19	0	S15 AND S6
S20	7	S15 AND S9
S21	6	RD S20 (unique items)
S22	0	S11 AND S1

```
S23      19    S11 AND CHARACTER??
S24   .    0    S23 AND S3
S25        0    S23 AND S4
S26       19    S23 NOT (S13 OR S20)
S27       19    RD S26 (unique items)
S28        7    S27 NOT (ACTOR OR MOVIES OR FILMS OR WITNESS OR BOOKS OR G-
              ANGS OR MUSIC OR NOVEL OR DRAMA OR PLAYS)
S29        0    TEXT(3N)STRING? AND S5
S30     1639    TEXT AND S4
S31       13    S30 AND S14
S32        0    S31 AND S11
S33       13    S31 NOT (S23 OR S13 OR S20)
S34       10    RD S33 (unique items)
S35      754    S6 AND RECOGN?
S36        6    S35 AND S2
S37        6    S36 NOT (S31 OR S23 OR S13 OR S20)
S38        6    RD S37 (unique items)
S39     1961    (S3 OR S12 OR S14) AND S5
S40      186    S39 AND S9
S41        0    S40 AND S2
S42        0    S40 AND S8
S43        0    S40 AND S6
S44       86    S40 AND (COMPAR? OR MATCH? OR SIMILAR OR LIKENESS)
S45       86    S44 NOT (S36 OR S31 OR S23 OR S13 OR S20)
S46       21    S45 AND PY=2002:2005
S47       65    S45 NOT S46
S48       39    RD S47 (unique items)
S49    .   0    (S2 OR S10) AND S11
S50       33    S2 AND S3 AND S4
S51        0    S50 AND S9
S52       33    S50 NOT (S44 OR S36 OR S31 OR S23 OR S13 OR S20)
S53       26    S52 NOT PY=2002:2005
S54       21    RD S53 (unique items)
S55        0    S8 AND (S4 OR S5)
S56        0    S8 AND S2
S57        2    S8 AND S9
S58        1    RD S57 (unique items)
S59        0    S58 NOT FLIP()CHIP
S60       10    S6 AND S2
S61        0    S60 AND (LUMINENCE? OR BRIGHT? OR HUE?? OR EQUI()LUMINENCE?
              OR EQUILUMINENCE? OR INTENSIT?)
S62       10    RD S60 (unique items)
```

16/3,K/1   (Item 1 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

07604005   INSPEC Abstract Number: B2000-07-6135-052, C2000-07-1250B-005
  Title: Extraction of character strings from house maps
  Author(s): Simasaki, T.; Watanabe, T.
  Author Affiliation: Dept. of Inf. Eng., Nagoya Univ., Japan
  Conference Title: Proceedings of IAPR Workshop on Machine Vision
Applications   p.297-300
  Publisher: Univ. Tokyo, Tokyo, Japan
  Publication Date: 1998 Country of Publication: Japan   xii+595 pp.
  ISBN: 4 901122 98 3   Material Identity Number: XX-1998-03429
  Conference Title: Proceedings of IAPR Workshop on Machine Vision
Applications (NVA'98)
  Conference Sponsor: IAPR MVA Organ. Committee; Univ. Tokyo; Fujitsu
  Conference Date: 17-19 Nov. 1998   Conference Location: Chiba, Japan
  Language: English
  Subfile: B C
  Copyright 2000, IEE

  Title: Extraction of character strings from house maps
  Abstract: In this paper, we propose an experimental extraction method
of character strings from house map images, using the block
information. Our method consists of two steps: the first is to recognize
the block information, and the second is to extract character
strings with respect to the recognized block information. In comparison
with urban maps, which have often been investigated for extraction
subject of character strings , house maps are characterized as (1)
utilization of many different kinds of character sets; and...
  ...Descriptors: feature extraction
  ...Identifiers: feature extraction

  16/3,K/2   (Item 2 from file: 2)
DIALOG(R)File   2:INSPEC
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06628984   INSPEC Abstract Number: B9708-6140C-316, C9708-7840-013
  Title: Directional mathematical morphology approach for line thinning and
extraction of character strings from maps and line drawings
  Author(s): Huizhu Luo; Agam, G.; Dinstein, I.
  Author Affiliation: Dept. of Electr. & Comput. Eng., Ben-Gurion Univ. of
the Negev, Beer-Sheva, Israel
  Conference Title: Proceedings of the Third International Conference on
Document Analysis and Recognition   Part vol.1   p.257-60 vol.1
  Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA
  Publication Date: 1995 Country of Publication: USA   2 vol. xxvi+1188
pp.
  ISBN: 0 8186 7128 9   Material Identity Number: XX95-02133
  U.S. Copyright Clearance Center Code: 0 8186 7128 9/95/$4.00
  Conference Title: Proceedings of 3rd International Conference on Document
Analysis and Recognition
  Conference Sponsor: IAPR TC-11, TC-10; Canadian Image Process. & Pattern
Recognition Soc.; Centre for Pattern Recognition & Machine Intelligence;
IEEE, Sect. Montreal; Lab. Scribens; Int. Graphonomics Soc.; Centre de res.
inf. Montreal; Inst. Robotics & Intelligence Syst
  Conference Date: 14-16 Aug. 1995   Conference Location: Montreal, Que.,
Canada
  Language: English

Subfile: B C
Copyright 1997, IEE

   Title: **Directional mathematical morphology approach for line thinning and**
extraction **of** character. strings **from maps and line drawings**
   ...Abstract: of symbols and characters. The paper addresses two aspects
related to the input process. The **first** aspect is an automatic algorithm
for the separation of character strings from maps. The **second** aspect is
an algorithm for line thinning. The proposed algorithms are based on
directional morphology operations. The **character string extraction**
algorithm is independent of font style, size, and language and is suitable
for a variety...
   ...Descriptors: **feature extraction ;** ...

...string **matching ;**
   ...Identifiers: **character string extraction ;**

 16/3,K/3   (Item 3 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

05950993   INSPEC Abstract Number: C9506-5260B-274
   Title: **A method for recognizing character strings from maps using
linguistic knowledge**
   Author(s): Nakamura, A.; Shiku, O.; Anegawa, M.; Nakamura, C.; Kuroda, H.
   Author Affiliation: Dept. of Electr. Eng. & Comput. Sci., Nagasaki Univ.,
Japan
   p.561-4
   Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA
   Publication Date: 1993 Country of Publication: USA   xx+963 pp.
   ISBN: 0 8186 4960 7
   U.S. Copyright Clearance Center Code: 0 8186 4960 7/93/$3.00
   Conference Title: Proceedings of 2nd International Conference on Document
Analysis and Recognition (ICDAR '93)
   Conference Sponsor: IAPR TC-11 & TC-10; IEEE Comput. Soc. & IGS
   Conference Date: 20-22 Oct. 1993   Conference Location: Tsukuba Science
City, Japan
   Language: English
   Subfile: C
   Copyright 1995, IEE

   ...Abstract: topographical maps. The method consists of a bottom-up
process and a top-down process. **First** , in the bottom-up process,
character candidates are extracted from a map. **Second** , in the top-down
process, these character candidates are grouped into strings using
linguistic knowledge...
   ...Descriptors: **feature extraction ;** ...

...string **matching**

·16/3,K/4   (Item 4 from file: 2)
DIALOG(R)File   2:INSPEC
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04466275   INSPEC Abstract Number: C89061513
   Title: ˙**An algorithm for finding a common structure shared by a family of
strings**
   Author(s): Landraud, A.M.; Avril, J.-F.; Chretienne, P.

...Abstract: extended to two-dimensional image analysis. This structure
appears as alignments of words which are **similar** but not necessarily
identical and which occur approximately at the same location in all the
strings. The method works in two successive stages. **First** , a fast
algorithm is used for drawing up a directory of exactly repeated patterns
appearing in a given majority of strings. **Second** , the algorithm
constructs recursively anchoring patterns by a divide-and-conquer strategy
and converges on...
   Identifiers: **feature   extraction** ;

   16/3,K/5   (Item 1 from file: 94)
DIALOG(R)File 94:JICST-EPlus

03569295   JICST ACCESSION NUMBER: 98A0598764 FILE SEGMENT: JICST-E
 Extraction **of** Character   Strings **from House Maps on the Basis of Block
     Information.**
SHIMASAKI TAKAMASA (1); WATANABE TOYOHIDE (1)
(1) Nagoya Univ., Grad. Sch.

 Extraction **of** Character   Strings **from House Maps on the Basis of Block
     Information.**
ABSTRACT: In this paper, we propose an experimental **extraction** method of
     character   strings from house map images, using the block
     information. Our method is devided into two steps: the **first** is to
     recognize the block information, and the **second** is to **extract**
     character   strings with respect to the recognized block information.
     In **comparison** with urban maps, which have often been investigated for
     extraction subject of **character   strings** , house maps are
     characterized as (1) utilization of many different kinds of character
     sets; and...
...DESCRIPTORS: **feature   extraction** ;
?

21/3,K/1   (Item 1 from file: 2)

07480252   INSPEC Abstract Number: B2000-03-6135-053, C2000-03-5260B-079
  Title: A quick scene classification method based on compact encoding of
video feature sequence
  Author(s): **Nagasaka, A. ; Miyatake, T.**
  Author Affiliation: Central Res. Lab., Hitachi Ltd., Kokubunji, Japan

  Author(s): **Nagasaka, A. ; Miyatake, T.**
  Abstract: This article proposes a method of real-time scene
classification of motion **images** by **detecting** the features of an input
image that are identical with already stored images. In this...
  ...Identifiers: **image   identification ;**

21/3,K/2   (Item 1 from file: 94)

02982400   JICST ACCESSION NUMBER: 96A0444701 FILE SEGMENT: JICST-E
Moving Object Detection by Time-Correlation-Based Background Judgement
    Method.
NAGAYA SHIGEKI (1); **MIYATAKE TAKAFUMI** (1); FUJITA TAKEHIRO (1); ITO
    WATARU (2); UEDA HIROTADA (2)
(1) Hitachi, Ltd., Cent. Res. Lab.; (2) Hitachidenshi Kaiken

NAGAYA SHIGEKI (1); **MIYATAKE TAKAFUMI** (1); FUJITA TAKEHIRO (1)
...ABSTRACT: object using time correlated changes, instead of a moving
    object region in every flame time **image** . This system **detects** a
    moving object in real-time, and is robust against the changes in the
    environment...

21/3,K/3   (Item 2 from file: 94)

02774609   JICST ACCESSION NUMBER: 96A0191486 FILE SEGMENT: JICST-E
Intelligent picture handling by image **recognition technology.** Detection

of subliminal heterogeneous pictures.
 MIYATAKE TAKAFUMI   (1);   NAGASAKA AKIO   (1)
(1) Hitachi, Ltd., Cent. Res. Lab.
Gazo Rabo, 1996, VOL.7,NO.2, PAGE.48-51, FIG.7, REF.6

Intelligent picture handling by image recognition technology. Detection
    of subliminal heterogeneous pictures.
 MIYATAKE TAKAFUMI   (1);   NAGASAKA AKIO   (1)

 21/3,K/4   (Item 3 from file: 94)

01764391   JICST ACCESSION NUMBER: 93A0404310   FILE SEGMENT: JICST-E
Quantum Well Infrared Photodetectors Using Intersubband Absorption in
    GaAs/AlGaAs.
 MIYATAKE T   (1); SAKUTA D (1); KUBO H (1); MORI N (1); TANIGUCHI K (1);
    HAMAGUCHI C (1); NONAKA K (2)
(1) Osaka Univ., Osaka, JPN; (2) HONDA R&D Co. Ltd., Saitama
Technol Rep Osaka Univ, 1993, VOL.43,NO.2124/2141, PAGE.95-102, FIG.8,
    TBL.1, REF.18

 MIYATAKE T   (1); SAKUTA D (1); KUBO H (1); MORI N (1); TANIGUCHI K (1);
    HAMAGUCHI C (1)
...ABSTRACT: the bias voltage. The GaAs/Al0.25Ga0.75As multiquantum well
    infrared photodetector has a high detectivity of D*. IMAGE .5.0*109cm
    .RAD.Hz/W (at 77K), which is 50% smaller than that of...

 21/3,K/5   (Item 4 from file: 94)

01226803   JICST ACCESSION NUMBER: 90A0821787   FILE SEGMENT: JICST-E
High precision position detection by the sector Fresnel's zone
    plate.(1).Position detection by the sector Fresnel's zone plate.
 MIYATAKE TSUTOMU   (1); HAMADA SHIRO (1)
(1) Sumitomo Heavy Industries, Ltd.
Seimitsu Kogakkai Taikai Gakujutsu Koenkai Koen Ronbunshu, 1989,
    VOL.1989,NO.Autumn 3, PAGE.665-666, FIG.6, TBL.1

MIYATAKE TSUTOMU   (1); HAMADA SHIRO (1)

ABSTRACT: This paper describes SFZP, detection principle on gap dependence,
    simple optical instrument which **detects** a fresnel diffraction **image**
    , **detection** composition of the equipment and detection accuracy of
    relative positions of an X-ray mask...

21/3,K/6   (Item 1 from file: 144)
DIALOG(R)File 144:Pascal

   12914916   PASCAL No.: 97-0183220
   Contour representation of binary images using run-type direction codes
     MIYATAKE T ; MATSUSHIMA H; EJIRI M
   Central Research Laboratory, Hitachi Ltd., Kokubunji, Tokyo 185, Japan;
Telecommunications Division, Hitachi Ltd., Totsuka, Yokohama 244, Japan

     MIYATAKE T ; MATSUSHIMA H; EJIRI M

English Descriptors: Expert system; Image processing; Word processing;
   Character processing; Binary **image** ; Edge **detection** ; Algorithm;
   Automaton; Experimental study; System performance

French Descriptors: Systeme expert; Traitement image; Traitement texte;
   Traitement caractere; **Image** binaire; **Detection** contour; Algorithme;
   Automate; Etude experimentale; Performance systeme; Contour tracing; .
   Transition points; Run
?

28/3,K/1 (Item 1 from file: 2)

08597752 INSPEC Abstract Number: B2003-05-6135E-154, C2003-05-5260B-524
 Title: **Automatic detection of signs with affine transformation**
 Author(s): Xilin Chen; Jie Yang; Jing Zhang; Waibel, A.
 Author Affiliation: Interactive Syst. Lab, Carnegie Mellon Univ., Pittsburgh, PA, USA
 Conference Title: Proceedings Sixth IEEE Workshop on Applications of Computer Vision (WACV 2002) p.32-6
 Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA
 Publication Date: 2002 Country of Publication: USA xi+336 pp.
 ISBN: 0 7695 1858 3 Material Identity Number: XX-2002-03967
 U.S. Copyright Clearance Center Code: 0-7695-1858-3/02/$17.00
 Conference Title: Proceedings Sixth IEEE Workshop on Applications of Computer Vision (WACV 2002)
 Conference Sponsor: IEEE Comput. Soc
 Conference Date: 3-4 Dec. 2002 Conference Location: Orlando, FL, USA
 Language: English
 Subfile: B C
 Copyright 2003, IEE

    Abstract: In this paper, we propose an approach for detecting signs from natural **scenes** . The approach efficiently **embeds** multiresolution, adaptive search, and affine rectification algorithms in a hierarchical framework, with different emphases at...

... inappropriate camera view angle. This procedure can significantly improve text detection rate and OCR (Optical **Character** Recognition) accuracy. Experimental results have demonstrated feasibility of the proposed algorithms. We have applied the...

28/3,K/2 (Item 2 from file: 2)

08455803 INSPEC Abstract Number: C2002-12-1250B-079
 Title: **A robust approach for recognition of text** embedded **in natural scenes**
 Author(s): Jing Zhang; Xilin Chen; Hanneman, A.; Jie Yang; Waibel, A.
 Conference Title: Proceedings 16th International Conference on Pattern Recognition Part vol.3 p.204-7 vol.3
 Editor(s): Kasturi, R.; Laurendeau, D.; Suen, C.
 Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA
 Publication Date: 2002 Country of Publication: USA 4 vol.(xxix+834+xxxv+1116+xxxiii+1068+xxv+418) pp.
 ISBN: 0 7695 1695 X Material Identity Number: XX-2002-02683
 U.S. Copyright Clearance Center Code: 1051-4651/02/$17.00
 Conference Title: Proceedings of 16th International Conference on Pattern Recognition
 Conference Date: 11-15 Aug. 2002 Conference Location: Quebec City, Que., Canada
 Language: English
 Subfile: C
 Copyright 2002, IEE

 Title: **A robust approach for recognition of text** embedded **in natural scenes**
    Abstract: In this paper, we propose a robust approach for recognition of

text **embedded** in natural **scenes** . Instead of using binary information as most other OCR systems do, we extract features from...

... Chinese sign recognition task. The system can recognize a vocabulary of 3755 level I Chinese **characters** in the Chinese national standard **character** set GB2312-80 with various print fonts. We tested the system on 1630 test **characters** in sign images captured from the natural scenes, and the recognition accuracy was 92.46...
   Descriptors: **character** recognition...
   ...Identifiers: Chinese **character** ;

 28/3,K/3   (Item 3 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

08439274   INSPEC Abstract Number: C2002-12-1250B-065
 Title: Automatic detection and translation of text from natural scenes
   Author(s): Jie Yang; Xilin Chen; Jing Zhang; Ying Zhang; Waibel, A.
   Author Affiliation: Interactive Syst. Lab., Carnegie Mellon Univ., Pittsburgh, PA, USA
   Conference Title: 2002 IEEE International Conference on Acoustics, Speech, and Signal Processing. Proceedings (Cat. No.02CH37334) Part vol.2   p.II-2101-4 vol.2
   Publisher: IEEE, Piscataway, NJ, USA
   Publication Date: 2002 Country of Publication: USA   4 vol.civ+4194 pp.
   ISBN: 0 7803 7402 9   Material Identity Number: XX-2002-01556
   U.S. Copyright Clearance Center Code: 0-7803-7402-9/02/$17.00
   Conference Title: Proceedings of International Conference on Acoustics, Speech and Signal Processing (CASSP'02)
   Conference Sponsor: IEEE Signal Process. Soc
   Conference Date: 13-17 May 2002   Conference Location: Orlando, FL, USA
   Language: English
   Subfile: C
   Copyright 2002, IEE

   Abstract: Large amounts of information are **embedded** in natural scenes . Signs are good examples of natural objects with high information content. In this paper, we...
   ...Descriptors: optical **character** recognition...

 28/3,K/4   (Item 1 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

06090993   E.I. No: EIP02287015005
   Title: Automatic detection and translation of text from natural scenes
   Author: Yang, Jie; Chen, Xilin; Zhang, Jing; Zhang, Ying; Waibel, Alex
   Corporate Source: Interactive Systems Laboratory Carnegie-Mellon University, Pittsburgh, PA 15213, United States
   Conference Title: 2002 IEEE International Conference on Acoustic, Speech and Signal Processing
   Conference Location: Orlando, FL, United States Conference Date: 20020513-20020517
   E.I. Conference No.: 59255
   Source: ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings v 2 2002. p II/2101-II/2104 (IEEE cat n 02ch37334)
   Publication Year: 2002

Abstract: Large amounts of information are **embedded** in natural **scenes**
. Signs are good examples of natural objects with high information
content. In this paper, we...
    Descriptors: *Algorithms; Text processing; Optical **character**
recognition; Computer aided language translation; Image coding; Systems
analysis; Personal digital assistants; Voice/data communication...

 28/3,K/5   (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online

01675908 ORDER NO: AAD13-92122
**MANIFESTATIONS OF NINETEENTH CENTURY FEMININE ILLNESS IN JANE AUSTEN'S
"EMMA" AND "PERSUASION"**
  Author: MCKENZIE, BRANDI POSTON
  Degree:. M.A.
  Year: 1998
  Corporate Source/Institution: ANGELO STATE UNIVERSITY (1291)
  Source: VOLUME 37/02 of MASTERS ABSTRACTS.
           PAGE 439. 123 PAGES

    ....novels have been primarily read for issues of manners, marriage,
and class. Austen, however, also **incorporates** many **scenes** of illness
into her novels.
    This research utilizes medical and feminist theories of
nineteenth-century...

...as catalysts for developing meta-narratives, which she uses to reveal
the importance of ailing **character**s who impact the theme and plot of
early nineteenth-century literature. This thesis explores Austen...

 28/3,K/6   (Item 2 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online

01205262 ORDER NO: AAD92-06743
PERCEPTUAL CHARACTERISTICS OF MENTAL SPATIAL MODELS
  Author: BRYANT, DAVID JOHN
  Degree: PH.D.
  Year: 1991
  Corporate Source/Institution: STANFORD UNIVERSITY (0212)
  Source: VOLUME 52/09-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
           PAGE 4999. 117 PAGES

    ...terms for objects from their own external perspective and from the
internal perspective of the **character** in the scene. In a perceptual
condition, the model was left visible while subjects were...

...in the memory condition, but not the perceptual. In the second
experiment, subjects themselves stood **inside scenes** and were probed
with direction terms from their own internal perspective in memory and
perceptual...

 28/3,K/7   (Item 3 from file: 35)

01122209 ORDER NO: AAD90-27404
"OUR EARNEST APPEAL": THE SOUTHERN DOMESTIC NOVELISTS AND THEIR LITERARY DEFENSE OF SOUTHERN CULTURE, 1833-1866 (NOVELISTS, GILMAN, HENTZ, MCINTOSH, TERHUNE, EVANS)
  Author:. MOSS, SARA ELIZABETH
  Degree: PH.D.
  Year: 1989
  Corporate Source/Institution: WASHINGTON UNIVERSITY (0252)
  Source: VOLUME 51/05-A OF DISSERTATION ABSTRACTS INTERNATIONAL.
           PAGE 1743.   401 PAGES

      ...of national politics and used their fiction to comment on the
escalation of sectional tensions. **Incorporating** southern **scenes** and
characters into richly textured prose, the southern domestic novelists
affirmed women's role in enriching and...
?

34/3,K/1   (Item 1 from file: 2)

08093151   INSPEC Abstract Number: C2001-12-6130D-035
  Title: . Text **extraction from gray scale document images using edge
information**
  Author(s): Yuan, Q.; Tan, C.L.
  Author Affiliation: Dept. of Comput. Sci., Nat. Univ. of Singapore,
Singapore
  Conference Title: Proceedings of Sixth International Conference on
Document Analysis and Recognition   p.302-6
  Publisher: IEEE Comput. Soc, Los Aalmitos, CA, USA
  Publication Date: 2001 Country of Publication: USA   xxiv+1274 pp.
  ISBN: 0 7695 1263 1   Material Identity Number: XX-2001-02040
  U.S. Copyright Clearance Center Code: 0-7695-1263-1/01/$10.00
  Conference Title: Proceedings of Sixth International Conference on
Document Analysis and Recognition
  Conference Sponsor: IAPR
  Conference Date: 10-13 Sept. 2001   Conference Location: Seattle, WA,
USA
  Language: English
  Subfile: C
  Copyright 2001, IEE
  Title: Text **extraction from gray scale document images using edge
information**
  ...Abstract: using the technology of line approximation and layout
categorization, it can successfully retrieve directional placed **text**
blocks. Finally feature based connected component merging was introduced to
gather homogeneous textual regions together...

... its bounding rectangles. We can obtain correct page decomposition with
efficient computation and reduced memory **size** by handling **line** segments
instead of small **pixels** . The proposed method has been tested on a large
group of newspaper images with multiple...
  ...Identifiers: **text** extraction

34/3,K/2   (Item 2 from file: 2)

07497625   INSPEC Abstract Number: A2000-06-9365-005, B2000-03-7710D-046,
C2000-03-7340-048
  Title: **The Scientific Graphics Toolkit**
  Author(s): Denbo, D.W.
  Author Affiliation: Joint Inst. for the Study of the Atmos. & Ocean,
Washington Univ., Seattle, WA, USA
  Conference Title: Oceans '99. MTS/IEEE. Riding the Crest into the 21st
Century. Conference and Exhibition. Conference Proceedings (IEEE Cat.
No.99CH37008)   Part vol.1   p.470-3 vol.1
  Publisher: IEEE & Marine Technol. Soc, Piscataway, NJ, USA & Washington,
DC, USA
  Publication Date: 1999 Country of Publication: USA   3 vol. xxxiv+1602
pp.
  ISBN: 0 7803 5628 4   Material Identity Number: XX-1999-02769
  Conference Title: Oceans '99. MTS/IEEE. Riding the Crest into the 21st
Century. Conference and Exhibition. Conference Proceedings
  Conference Sponsor: Marine Technol. Soc.; Oceanic Eng. Soc. IEEE
  Conference Date: 13-16 Sept. 1999   Conference Location: Seattle, WA,

USA

   ...Abstract: and freedom in producing graphics applications. Support for
multiple transformations, X-Y plots, contour and " **pixel** " plots, and
vector plots are part of Sgt. Sgt also provides developer support to allow
...

... The new features of Java2D will enable sgt to support line styles (e.g.
dashed, **line   widths**), rotation of **text** at arbitrary angles, and
improved font capabilities.

   34/3,K/3   (Item 3 from file: 2)

   Title: **Development of a tool for the electrical analysis and design of
TFT/LCD system package**
   Author(s): Ho Nam Yim; Yong Jee
   Author Affiliation: Dept. of Electr. Eng., Sogang Univ., Seoul, South
Korea

   ...Abstract: 1.58 ps delay along the panel scan line of a package
containing 480*240   **pixels** . We designed a package structure with maximum
6.35 mu s signal delays of 3360*780 **pixels** , and as a result showed that
the appropriate structure has 20 mu m scan **line   width** , 60 mu m panel
TFT gate width and 8 mu m gate length. The LCD...

... the analysis and the design in the form of input files for the SPICE
program, **text** data files, and graphic charts.
   ...Identifiers: scan **line   width** ; ...

... **text** data files...

...480 **pixel** ; ...

...240 **pixel** ; ...

...115200 **pixel** ; ...

...3360 **pixel** ; ...

...780 **pixel** ; ...

...2620800 **pixel** ;

34/3,K/4   (Item 4 from file: 2)

05986164   INSPEC Abstract Number: C9508-1250B-014
 Title: **Vector templates and handprinted digit recognition**
 Author(s): Parker, J.R.
 Author Affiliation: Dept. of Comput. Sci., Calgary Univ., Alta., Canada
 Part vol.2   p.457-9 vol.2
 Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA
 Publication   Date: 1994   Country   of   Publication: USA   3   vol.
(xxvii+875+xxiv+635+xxii+423) pp.
 ISBN: 0 8186 6270 0
 U.S. Copyright Clearance Center Code: 1051-4651/94/$04.00
 Conference Title: Proceedings of 12th International Conference on Pattern
Recognition
 Conference   Sponsor: Int.   Association   for   Pattern   Recognition;   IEEE
Comput. Soc.; Inf. Process. Assoc. Israel
 Conference Date: 9-13 Oct. 1994   Conference Location: Jerusalem, Israel
 Language: English
 Subfile: C
 Copyright 1995, IEE

   Abstract: While a multitude of template matching strategies have been
applied to printed   **text** recognition, the variation seen in handprinted
characters generally reduces the usefulness of this technique. What...

 ...vector templates, which can be used to generate a template with the same
scale and **line** **width** attributes as an arbitrary input character image.
The best match is the template having the smallest total distance between
black **pixels** . Multiple templates are used for each character and digits
only are used as a sample...

34/3,K/5   (Item 5 from file: 2)

05710069   INSPEC Abstract Number: C9408-1250B-005
 Title: **Robust method for recognition of handwritten characters**
 Author(s): Tomovic, R.; Stankovic, S.; Marjanovic, M.
 Author Affiliation: Fac. of Electr. Eng., Belgrade Univ., Serbia
 Journal: Publications   of   the   Faculty   of   Electrical   Engineering,
University of Belgrade, Series: Automatic Control   no.1   p.75-92
 Publication Date: 1992 Country of Publication: Serbia
 CODEN: PFEBEP ISSN: 0354-124X
 Language: English
 Subfile: C

   ...Abstract: of the latin (cyrillic) alphabet, printed and handwritten
patterns, different fonts, segmentation of the cursive **text** . The approach
is holistic, operating on given symbol inputs without exploration of **pixel**
 neighborhoods. The recognition process is inherently robust to **size** ,
location, **line** thickness, and, to a certain degree, orientation changes.
The basic idea of the method is...

 ... formal expression of line core patterns is described, together with
procedures to derive them from **pixel** patterns. Examples indicating
potentials of the method are given for handwritten characters. The

extension of the method to the interpretation of the cursive **text** is emphasized.
    ...Identifiers: cursive **text** ;

34/3,K/6   (Item 6 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

05514940   INSPEC Abstract Number: C9312-5260B-091
    Title: **Estimation of skew angle in** text **image analysis by sensor array processing techniques**
    Author(s): Aghajan, H.K.; Khalaj, B.H.; Kailath, T.
    Author Affiliation: Dept. of Electr. Eng., Stanford Univ., CA, USA
    Journal: Proceedings of the SPIE - The International Society for Optical Engineering   vol.1906   p.49-60
    Publication Date: 1993 Country of Publication: USA
    CODEN: PSISDG ISSN: 0277-786X
    U.S. Copyright Clearance Center Code: 0 8194 1139 6/93/$4.00
    Conference Title: Character Recognition Technologies
    Conference Sponsor: SPIE
    Conference Date: 1-2 Feb. 1993   Conference Location: San Jose, CA, USA
    Language: English
    Subfile: C

    Title: **Estimation of skew angle in** text **image analysis by sensor array processing techniques**
    Abstract: A new signal processing method is developed for estimating the skew angle in **text** document images. Based on a recently introduced multi-line fitting algorithm, the proposed method reformulates...
    ... skew angle. A simple preprocessing stage transforms each line of test characters into a straight **line** of single- **pixel** **width** . Then, a virtual planar wave propagation environment reformulates the line fitting problem into the sensor...
    ...Identifiers: **text** image analysis

34/3,K/7   (Item 1 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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07467655   E.I. No: EIP05269178047
    Title: **Dynamic   local connectivity and its application to page segmentation**
    Author: Shi, Zhixin; Govindaraju, Venu
    Corporate   Source: Center of Excellence for Document Analysis and Recognition (CEDAR) State University of New York at Buffalo, Amherst, NY, United States
    Conference Title: HDP 2004: Proceedings of the First ACM Hardcopy Document Processing Workshop
    Conference Location: Washington, DC, United States   Conference Date: 20041112-20041112
    E.I. Conference No.: 65029
    Source: HDP 2004: Proceedings of the First ACM Hardcopy Document Processing Workshop HDP 2004: Proceedings of the First ACM Hardcopy Document Processing Workshop 2004.
    Publication Year: 2004
    ISBN: 1581139764
    Language: English

...Abstract: Algorithms found in published literatures often rely on some predetermined parameters such as general font **sizes** , distances between **text** **lines** and document scan resolutions. Variations of these parameters in real document images greatly affect the...

...transforms a document image into a parameter domain in which a parameter value at a **pixel** location represents a connectivity property for its neighboring foreground **pixels** in the original document image. Then a top-down approach with a linear search reveals the document regions at each resolution levels as **text** block, **text** lines and graphics. We consider our algorithm a transform based multi-resolution method. Our ongoing...

34/3,K/8 **(Item 2 from file: 8)**
DIALOG(R)File 8:Ei Compendex(R)
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

04181291 E.I. No: EIP95031610258
 Title: **Fast and accurate skew detection algorithm for a** text **document or a document with straight lines**
 Author: Bessho, Goroh; Ejiri, Koichi; Cullen, John F.
 Corporate Source: Ricoh Co., Ltd., Yokohama-shi, Kanagawa, Jpn
 Conference Title: Document Recognition
 Conference Location: San Jose, CA, USA Conference Date: 19940209-19940210
 E.I. Conference No.: 21283
 Source: Proceedings of SPIE - The International Society for Optical Engineering v 2181 1994. Publ by Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA. p 133-140
 Publication Year: 1994
 CODEN: PSISDG ISSN: 0277-786X ISBN: 0-8194-1476-X
 Language: English

 Title: **Fast and accurate skew detection algorithm for a** text **document or a document with straight lines**
 ...Abstract: are from the same line or not. To remove any bad effect from variation in **line** **width** , we sample a number of different x-y coordinates along the black runs, adjacent to white **pixels** . Those coordinates determine a correlation function which is used to find the correlation value. If...

...coefficients can also be used to align character lines. The rectangles formed by connected black **pixel** are extracted using two or three different compression ratios. We can tell whether those characters...
 Identifiers: **Text** documents; Document recognition; Multiple compression images; Correlation functions; Straight lines; Skew detection; Bit mapped images

34/3,K/9 **(Item 3 from file: 8)**
DIALOG(R)File 8:Ei Compendex(R)
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

04102010 E.I. No: EIP95022595340
 Title: **Automatic interpretation of cadasters by image analysis techniques**
 Author: Hsieh, C.C.; Chao, H.W.; Chen, B.; Shih, P.H.
 Corporate Source: Inst for Information Industry, Taipei, Taiwan
 Conference Title: Proceedings of the 1994 1st IEEE International Conference on Image Processing. Part 3 (of 3)

Conference Location: Austin, TX, USA   Conference Date: 19941113-19941116
E.I. Conference No.: 42570
Source: IEEE International Conference on Image Processing v 3 1994. IEEE,
Los Alamitos, CA, USA,94CH35708. p 202-206
Publication Year: 1994
CODEN: 001953
Language: English

...Abstract: into vector is proposed. Scanner was used to convert paper
source map into raster representation. **Text** and graphics in the raster
image are first segmented. By connecting the neighboring character blocks,
text in different orientations can be recognized. To achieve the high
degree of accuracy, thinning is...

...can be executed very quickly. Line approximation is then conducted to
extract all the straight **line** segments. A3 **size** cadaster maps copied
from land agency are tested. The experimental results show that the
proposed...
   Identifiers: Cadasters; Automatic interpretation; **Text** ; Graphics;
Pixel based thinning algorithm; Binary images

 34/3,K/10   (Item 1 from file: 248)
DIALOG(R)File 248:PIRA

00179756   Pira Acc. Num.: 8428375   Pira Abstract Numbers: 02-88-03459
 Title: HITS: A LOOK AT CHINESE
  Authors: Anon
  Source: Seybold Rep. Publ. Syst. vol. 17, no. 22, 8 Aug. 1988, pp 27-28
  ISSN: 0736-7260
  Publication Year: 1988
  Document Type: Journal Article
  Language: English

...Abstract: 200 languages. The Chinese package uses the 'Dr Zhi method'
of inputting 24 x 24 **pixel** characters each of which consists of 4 pieces.
Single keystrokes suffice for the most common...

... are supported as well as several thousand special fonts. Each character
is assigned the same **width** so all **lines** have the same 'word spacing'.
Problems peculiar to Chinese composition include the need to accommodate
both vertical and horizontal **text** and the importance of borders. At the
People's Daily of Beijing the system has...
   ...Descriptors: **PIXEL** ; ...

... **TEXT** ;
?

38/3,K/1   (Item 1 from file: 34)

11108832   Genuine Article#: 608KY   No. References: 53
Title: Lexicon-driven segmentation and recognition **of handwritten**
    character   strings **for Japanese address reading**
Author(s): Liu CL (REPRINT) ; Koga M; Fujisawa H
Corporate Source: Hitachi Ltd,Cent Res Lab,1-280 Higashi
    Koigakubo/Kokubunji/Tokyo 1858601/Japan/ (REPRINT); Hitachi Ltd,Cent
    Res Lab,Kokubunji/Tokyo 1858601/Japan/
Journal: IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE,
    2002, V24, N11 (NOV), P1425-1437
ISSN: 0162-8828   Publication date: 20021100
Publisher: IEEE COMPUTER SOC, 10662 LOS VAQUEROS CIRCLE, PO BOX 3014, LOS
    ALAMITOS, CA 90720-1314 USA
Language: English   Document Type: ARTICLE   (ABSTRACT AVAILABLE)

Title: Lexicon-driven segmentation and recognition **of handwritten**
    character   strings **for Japanese address reading**
Abstract: This paper describes a handwritten **character   string
    recognition** system for Japanese mail address reading on very large
    vocabulary. The address phrases are **recognized** as a whole because
    there is no extra space between words. The lexicon contains 111,349
    address phrases, which are stored in a trie structure. In **recognition**
    , the text line image is matched with the lexicon entries (phrases) to
    obtain reliable segmentation...

...separated into primitive segments by connected component analysis and
    touching pattern splitting based on contour **shape** analysis. In
    lexicon matching, consecutive segments are dynamically combined into
    candidate character patterns. An accurate...

...search strategy is used to control the lexicon matching so as to achieve
    real-time **recognition** . In experiments on 3,589 live mail images, the
    proposed method achieved correct rate of...
...Identifiers--CONNECTED **WORD   RECOGNITION** ; ALGORITHM; STRATEGIES;
    SEARCH

38/3,K/2   (Item 2 from file: 34)

10957763 . Genuine Article#: 590QP   No. References: 61
Title: Lexical processes and eye movements in neglect dyslexia
Author(s): di Pellegrino G; Ladavas E; Galletti C
Corporate Source: Univ Wales,Sch Psychol,Bangor LL57 2DG/Gwynedd/Wales/;
    Univ Bologna,Dept Psychol,Bologna//Italy/; Univ Bologna,Inst
    Physiol,Bologna//Italy/
Journal: BEHAVIOURAL NEUROLOGY, 2001, V13, N1-2, P61-74
ISSN: 0953-4180   Publication date: 20010000
Publisher: IOS PRESS, NIEUWE HEMWEG 6B, 1013 BG AMSTERDAM, NETHERLANDS
Language: English   Document Type: ARTICLE   (ABSTRACT AVAILABLE)

...Abstract: non-word strings. Moreover, we also found that F.C. failed to
    identify the left **letters** of a **string** despite having fixated them,
    thus showing a clear dissociation between eye movement responses and
    conscious...

...interactions between lexical, attentional and eye movement systems that
     occur from very initial stages of **visual** word **recognition** .
...Identifiers-- **VISUAL** -ATTENTION; UNILATERAL NEGLECT; SPATIAL ATTENTION;
     FIXATION LOCATIONS; LETTER STRINGS; **RECOGNITION;** MECHANISMS; **SEARCH;**
     WORDS; LINE

 38/3,K/3   **(Item 1 from file: 94)**
DIALOG(R)File   94:JICST-EPlus
(c)2005 Japan Science and Tech Corp(JST). All rts. reserv.

04407063   JICST ACCESSION NUMBER: 99A0938145 FILE SEGMENT: JICST-E
An Algorithm of Character   String **Search in Document Images.**
NAKANISHI TAIGA (1)
(1) Tohoku Univ.
Tohoku Daigaku Dentsu Danwakai Kiroku(Record of Electrical and
     Communication Engineering Conversazione, Tohoku University), 1999,
     VOL.68,NO.1, PAGE.257-258, FIG.2, REF.4
JOURNAL NUMBER: F0511AAU   ISSN NO: 0385-7719
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:621.397.3   681.3:165   002.5:005
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication

An Algorithm of Character   String **Search in Document Images.**
ABSTRACT: The **keyword** **search** in document images after preprocessing of
     recognition has problems such as missing keyword caused by
     recognition error and excessive time for preprocessing of **recognition**
     . To deal with these problems, we propose a high precision **keyword**
     search system that uses **feature** vectors of images in the comparing
     process, without any **recognition** in advance. According to our
     experiments, in both high and low quality document images, high...
...DESCRIPTORS: **character** **string** ; ...

...character **recognition** ; ...

... **feature** extraction
...BROADER DESCRIPTORS: figure pattern **recognition** ; ...

...pattern **recognition** ; ...

... **recognition** ;

 38/3,K/4   **(Item 2 from file: 94)**
DIALOG(R)File   94:JICST-EPlus
(c)2005 Japan Science and Tech Corp(JST). All rts. reserv.

02711328   JICST ACCESSION NUMBER: 96A0433662 FILE SEGMENT: JICST-E
A Word -Sequence Search **Algorithm for a Hand-Written Character Reader.**
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(1) NEC Corp.; (2) NECJohoshisutemuzu
Joho Shori Gakkai Ronbunshi(Transactions of Information Processing Society
     of Japan), 1996, VOL.37,NO.4, PAGE.500-510, FIG.7, TBL.2, REF.21
JOURNAL NUMBER: Z0778AAZ   ISSN NO: 0387-5806
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:165
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper

A Word -**Sequence** Search **Algorithm for a Hand-Written Character Reader.**
...ABSTRACT: algorithm for post-processing in a hand-written character
    reader. Hand-written characters have such **characteristics** as various
    styles, irregularity in size and pitch, frequency of character
    overlapping, and so on. These **characteristics** bring difficulty into
    hand-written character reading systems. Post-processing to correct
    mis-segmentation and mis- **recognition** by linguistic information is an
    important approach to accurate reading. Conventional post-processing
    methods consist...

...combinational time complexity, required for examinations of all
    combinations of character segmentation candidates and character
    recognition candidates by approximate matching. In the algorithm
    proposed in this paper, character candidates are tagged...

...path search, where L is input length, and M is average number of
    segmentation and **recognition** candidates per character. This paper
    also describes its implementation and evaluation results in
    hand-written...
DESCRIPTORS: handwritten character **recognition** ; ...

... **character**   string
BROADER DESCRIPTORS: character **recognition** ; ...

...figure pattern **recognition** ; ...

...pattern **recognition** ; ...

... **recognition** ;

Handwritten Compound-word Recognition **Using the Best** Word **Combination**
    Searching .
OGURO MASAMI (1); NAKAMURA OSAMU (1); MIZUGAKI AKIO (1); KITAMURA TADASHI
    (1).
(1) Nippon Telegraph & Telephone Corp., Human Interface Lab.

Handwritten Compound-word Recognition **Using the Best** Word **Combination**
    Searching .
ABSTRACT: This paper presents a knowledge-processing method that uses a
    word dictionary for **recognizing** handwritten word strings. The
    ambiguity in both character **recognition** and word segmentation usually
    necessitates a lot of dictionary searching. We reduce the dictionary
    search time by using hypothetical word segmentation based on character
    shape   **features** and best-first **searching** with compatibility between
    word and character candidates. Experiments show that the number of

searches is proportional to the string length and the **recognition** rate is about 97.1%. This is about 13% higher than the **recognition** rate for character-only **recognition** . (author abst.)
DESCRIPTORS: handwritten character **recognition** ; ...

... **character   string**
BROADER DESCRIPTORS: character **recognition** ; ...

...figure pattern **recognition** ; ...

...pattern **recognition** ; ...

... **recognition** ;

 38/3,K/6   (Item 1 from file: 144)
DIALOG(R)File 144:Pascal
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 16092040   PASCAL No.: 03-0249396
 Word   searching **in document images using word portion matching**
 DAS 2002 : document analysis systems V : Princeton NJ, 19-21 August 2002
 YUE LU; CHEW LIM TAN
 LOPRESTI Daniel, ed; JIANYING HU, ed; KASHI Ramanujan, ed
 Department of Computer Science, School of Computing National University of Singapore, Kent Ridge, Singapore 117543, Singapore
 IAPR workshop on document analysis systems, 5 (Princeton NJ USA) 2002-08-19
 Journal: Lecture notes in computer science, 2002, 2423 319-328
 Language: English

 Word   searching **in document images using word portion matching**
 An approach with the capability of **searching** a **word** portion in document images is proposed in this paper, to facilitate the detection and location   of the user-specified query words. A **feature**   string is synthesized according to the character sequence in the user-specified word, and each word image extracted from documents are represented by a **feature** string.   Then, an inexact string matching technology is utilized to measure the similarity between the two **feature** strings, based on which we can estimate how the document word image is relevant to...

English Descriptors: String matching; Word; Image matching; **Character string** ; Graphic document; Document analysis; Optical character **recognition** ; Character **recognition**
?

48/3,K/1   (Item 1 from file: 2)
DIALOG(R)File   2:INSPEC

07601893   INSPEC Abstract Number: A2000-13-8780-007
  Title: Tracking differential interference contrast diffraction line
 images with nanometre sensitivity
  Author(s): Danuser, G.; Tran, P.T.; Salmon, E.D.
  Author Affiliation: Marine Biol. Lab., Woods Hole, MA, USA

  Abstract: Presents a computer vision framework for **detecting** and
tracking diffraction **images** of linear structures in differential
interference contrast (DIC) microscopy. The tracker can resolve image
displacements of 1/10 of a **pixel** despite the weak and
orientation-dependent contrast in DIC, as well as the variable blur in such
image data caused by **vertical** specimen movement. In our high numerical
aperture, high magnification microscope set-up, this resolution corresponds
to 5 nm in object space. In video DIC **similar** resolution has been
reported hitherto only for rotationally symmetric targets such as bead
images. The...

...elasticity. The paper describes a filtering scheme for the detection and
localization of DIC diffraction **line** images which represent loci of
microtubules. For tracking the movements of the extracted **lines** we
adopted the sum of squared (**brightness**) differences algorithm from
computer vision. The analysis of the fluctuation measurements demonstrates
the high sensitivity...

... and orientational changes. We derived that the theoretical limit in
tracking displacements of such diffraction **line** images is 1.25 nm, four
times below the experimentally verified sensitivity. This indicates that...
  ...Identifiers: differential interference contrast diffraction **line**
images...

... **vertical** specimen movement...

...sum of squared **brightness** differences algorithm

 48/3,K/2   (Item 2 from file: 2)
DIALOG(R)File   2:INSPEC

07401883   INSPEC Abstract Number: B1999-12-6320-050, C1999-12-7410-025
  **Title: Using artificial neural networks to identify small features in SAR
imagery**
  Author(s): Finch, I.; Yates, D.F.; Delves, L.M.
  Author Affiliation: Dept. of Comput. Sci., Liverpool Univ., UK

Conference Title: EUSAR'98. European Conference on Synthetic Aperture Radar   p.553-6
Publisher: VDE VERLAG GMBH, Berlin, Germany
Publication Date: 1998 Country of Publication: Germany   594 pp.
ISBN: 3 8007 2359 X   Material Identity Number: XX-1998-01646
Conference Title: Proceedings of EURSAR '98: European Conference on Synthetic Aperture Radar
Conference Sponsor: EUREL; URSI; DGON; IEEE
Conference Date: 25-27 May 1998   Conference Location: Friedrichshafen, Germany
Language: English
Subfile: B C
Copyright 1999, IEE

Abstract: It   is   desirable   to be able to process SAR **images** automatically, **identifying** key objects in the image. In particular, the authors are interested in identifying small objects (only a few **pixels** in size) such as airfield runway lights and electricity pylons. Taking pylons as an example...

...objects in SAR images, using prior knowledge about the objects and their relationship with other **similar** objects. As an example, electricity pylons appear as small **bright** regions in a SAR image, but so do many other objects (for example trees, parts...

... object itself is insufficient to identify pylons. However, pylons occur in straight or gently curving **lines** , with the spacing between each pylon being roughly equal. This contextual information allows pylons to be better **identified**   in   the   SAR   **image** . This paper discusses how the use of artificial neural nets can greatly improve the identification...

48/3,K/3   (Item 3 from file: 2)
DIALOG(R)File   2:INSPEC
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07129482   INSPEC Abstract Number: A1999-04-0760P-001
Title: Hyperspectral Raman microscopic imaging using Powell lens line **illumination**
Author(s): Christensen, K.A.; Morris, M.D.
Author Affiliation: Dept. of Chem., Michigan Univ., Ann Arbor, MI, USA
Journal: Applied Spectroscopy   vol.52, no.9   p.1145-7
Publisher: Soc. Appl. Spectrosc,
Publication Date: Sept. 1998 Country of Publication: USA
CODEN: APSPA4 ISSN: 0003-7028
SICI: 0003-7028(199809)52:9L.1145:HRMI;1-E
Material Identity Number: A085-1998-010
U.S. Copyright Clearance Center Code: 0003-7028/98/5209-1145$2.00/0
Language: English
Subfile: A
Copyright 1999, IEE

Title: Hyperspectral Raman microscopic imaging using Powell lens line **illumination**
Abstract: The design and characterization of a simple and robust hyperspectral Raman **line** imaging illumination system with the use of a Powell lens is reported. The generated **line** uniformity is +or-5% of total **intensity** with a laser power density of 12 mW/ mu m/sup 2/ at the sample with a 50*/0.8 NA (numerical aperture) objective. **Similar** results were obtained   by   using   other objectives. Linewidths remained near the

diffraction limit for all...

... acquisition time are also reported with the use of a Powell
lens-illuminated hyperspectral Raman **line** imaging microscope equipped
with an intensified charge-coupled device (CCD) **detector** . Hyperspectral
images (100*350 **pixels**) were acquired in as little as 8 with a
corresponding signal-to-noise ratio of...
   ...Identifiers: Powell lens **line** illumination...

...generated **line** uniformity...

48/3,K/4   (Item 4 from file: 2)
DIALOG(R)File   2:INSPEC
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06401002   INSPEC   Abstract   Number: A9623-8760J-005, B9612-7510B-011,
C9612-7330-012
  Title: Detection of stellate distortions in mammograms
   Author(s): Karssemeijer, N.; te Brake, G.M.
   Author Affiliation: Dept. of Radiol., Univ. Hospital Nijmegen,
Netherlands
   Journal: IEEE Transactions on Medical Imaging   vol.15, no.5   p.611-19
   Publisher: IEEE,
   Publication Date: Oct. 1996 Country of Publication: USA
   CODEN: ITMID4   ISSN: 0278-0062
   SICI: 0278-0062(199610)15:5L.611:DSDM;1-9
   Material Identity Number: C904-96005
   U.S. Copyright Clearance Center Code: 0278-0062/96/$05.00
   Language: English
   Subfile: A B C
   Copyright 1996, IEE

   ...Abstract: detect such stellate patterns. This method is based on
statistical analysis of a map of **pixel** orientations. If an increase of
 pixels pointing to a region is found, this region is marked as
suspicious, especially if such an increase is found in many directions.
Orientations of the **image intensity** map are **determined** at each **pixel**
 using a multiscale approach. At a given scale, accurate **line** -based
orientation estimates are obtained from the output of three-directional,
second-order, Gaussian derivative...

... orientation at the scale at which these operators have maximum response
is selected. If a **line** -like structure is present at a given site, this
method provides an estimate of the...

... this structure, whereas in other cases the image noise will generate a
random orientation. The **pixel** orientation map is used to construct two
operators which are sensitive to radial patterns of straight **lines** .
Combination of the output of these operators using a classifier allows for
detection of stellate patterns. Different classification methods have been
 compared and results obtained on a common database are presented. Around
90% of the malignant cases...
   ...Identifiers: **pixel** orientations map...

... **line** -like structure

48/3,K/5   (Item 5 from file: 2)
DIALOG(R)File   2:INSPEC

06281566   INSPEC   Abstract   Number: A9613-8760B-019,   B9607-7510B-071,
C9607-7330-092
  Title: **Fully automatic left ventricular myocardial boundary** detection   in
echocardiographic   images : a   comparison   **of two modern methods**
    Author(s): Setarehdan, S.K.; Soraghan, J.J.; Hunter, I.A.
    Author Affiliation: Signal Process. Div., Strathclyde Univ., Glasgow, UK
    Conference   Title: IEE Colloquium on Artificial Intelligence Methods for
Biomedical Data Processing (Ref. No.1996/100)   p.5/1-6
    Publisher: IEE, London, UK
    Publication Date: 1996   Country of Publication: UK   80 pp.
    Material Identity Number: XX96-01440
    Conference   Title: IEE Colloquium on Artificial Intelligence Methods for
Biomedical Data Processing (Ref. No.1996/100)
    Conference Sponsor: IEE
    Conference Date: 26 April 1996   Conference Location: London, UK
    Language: English
    Subfile: A B C
    Copyright 1996, IEE

  Title: **Fully automatic left ventricular myocardial boundary** detection   in
echocardiographic   images : a   comparison   **of two modern methods**
    ...Abstract: the   left   ventricular   (LV)   epicardial   and   endocardial
boundaries   from   short-axis   (SA)   echocardiographic   data,   and   **compares**
their   performance.   Both   methods   use   the radial search algorithm in the
extraction process. In the...

... automatic   multiresolution   boundary detection system), the first stage
uses   fuzzy   logic and the spatial and   **intensity**   information of the input
image to estimate the LV centre point (LVCP). Then, a novel...

... detection   technique   based on the wavelet transform is applied to each
one   of   the   radial   **intensity**   profiles to extract the most probable and
unique LV edge points along them. Median post...

... most   appropriate   centre   point   of the LV. A second MLP is trained to
classify   each   **pixel**   on the radial   **lines**   as an inner, outer or non-edge
point. Finally, knowledge guided snakes are employed to...
    ...Identifiers: radial   **intensity**   profiles...

... **pixel**   classification

 48/3,K/6   (Item 6 from file: 2)
DIALOG(R)File   2:INSPEC

05746424   INSPEC Abstract Number: A9419-8780-032, C9410-7330-085
   Title: **Inter-cellular fluorescence background on microscope slides: some
problems and solutions for automatic analysis**
    Author(s): Piper, J.; Sudar, D.; Peters, D.; Pinkel, D.
    Author Affiliation: Human Genetics Unit, Med. Res. Council, Edinburgh, UK
    Journal: Proceedings of the SPIE – The International Society for Optical
Engineering   vol.2173   p.28-35
    Publication Date: 1994   Country of Publication: USA
    CODEN: PSISDG   ISSN: 0277-786X
    U.S. Copyright Clearance Center Code: 0 8194 1468 9/94/$6.00
    Conference Title: Image Acquisition and Scientific Imaging Systems
    Conference Sponsor: SPIE

...Abstract: cellular or, in the case of metaphase preparations, the inter-chromosome background can be both **brightly** fluorescent and vary substantially across the slide or even across a single metaphase. Two related examples are the **bright** inter-cellular counterstain background of fluorescence in situ hybridization labeled chromosomes, and the inter-chromosome background produced when fluorescently labeled whole genomic DNA is used to stain chromosomes in **comparative** genomic hybridization (CGH) analysis. **Bright** background results in low **image** contrast, making automatic **detection** of metaphase cells more difficult. The background correction strategy employed in automatic search must both ...

... cellular or inter-chromosome background extends wholly, partially, or not at all across the foreground **pixels** whose fluorescence values are to be measured; and thus how exactly those values should be...

... case of CGH is obtained by image analysis of data obtained from experiments using cell **lines** with known abnormal copy numbers of particular chromosome types.

48/3,K/7   (Item 7 from file: 2)
DIALOG(R)File   2:INSPEC
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05639343   INSPEC Abstract Number: B9405-7230G-011

   ...Abstract: Linear array architecture, i.e., the configuration of photodiodes and TFTs, along with associated gate **lines** for **pixel** addressing and data **lines** for signal readout, is discussed and related to overall array performance. Page-size 2-D image sensors are **compared** to linear arrays in terms of light **intensities** and powers required, speeds at which images can be acquired, and are noted for their potential role in the medical imaging field for **detecting** X-ray **images** . We conclude with some of the challenges facing this technology to make it cheaper and...
   ...Identifiers: X-ray **image** **detection** ; ...

...gate **lines** ; ...

... **pixel** addressing...

...data **lines** ; ...

...light **intensities** ;

 48/3,K/8   (Item 8 from file: 2)
DIALOG(R)File   2:INSPEC
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05542910   INSPEC Abstract Number: B9401-6140C-229, C9401-5260B-137
  Title: **Detection and tracking of single-** pixel **targets based on**
trajectory continuity
  Author(s): Gan Wang; Inigo, R.M.
  Author Affiliation: Environ. Tectonics Corp., Southampton, PA, USA
  Journal: Image and Vision Computing   vol.11, no.10   p.641-55
  Publication Date: Dec. 1993 Country of Publication: UK
  CODEN: IVCODK ISSN: 0262-8856
 .U.S. Copyright Clearance Center Code: 0262-8856/93/010641-15
  Language: English
  Subfile.: B C B C

  Title: **Detection and tracking of single-** pixel **targets** . **based on**
trajectory continuity
  Abstract: A target detection and tracking algorithm has been developed to
identify single- **pixel** targets with unknown motion from a time sequence of
highly noisy images. The algorithm is...

...a target trajectory continuity theory, utilizing temporal continuity and
smoothness of target trajectories in both **intensity** and spatial
coordinates in an **image** plane to **detect** and simultaneously track
multiple targets. With a unique application of the trajectory continuity
theory, the...

... optimum solution is not possible, and at the same time unties the
constraint of straight **line** trajectory that most optimum algorithms
require for **similar** tasks. The algorithm design utilizes a
parallel-distributed computing architecture, which aims for real-time...
  Identifiers: single- **pixel** targets...

... **intensity** ; ...

...straight **line** trajectory

 48/3,K/9.   (Item 9 from file: 2)
DIALOG(R)File   2:INSPEC
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05461944   INSPEC Abstract Number: B9309-1295-025, C9309-5260B-096
  Title: **Silicon retina with correlation-based, velocity-tuned** pixels
  Author(s): Delbruck, T.
  Author Affiliation: California Inst. of Technol., Pasadena, CA, USA
  Journal: IEEE Transactions on Neural Networks   vol.4, no.3   p.529-41
  Publication Date: May 1993 Country of Publication: USA
  CODEN: ITNNEP ISSN: 1045-9227
  U.S. Copyright Clearance Center Code: 1045-9227/93/$03.00
  Language: English
  Subfile: B C

  Title: **Silicon retina with correlation-based, velocity-tuned** pixels

...Abstract: set of local direction-selective outputs is reported. The chip motion computation uses unidirectional delay **lines** as tuned filters for moving edges. Photoreceptors **detect** local changes in **image intensity** , and the outputs from these photoreceptors are coupled into the delay **line** , where they propagate with a particular speed in one direction. If the velocity of the moving edges **matches** that of the delay **line** , then the signal on the delay **line** is reinforced. The output of each **pixel** is the power in the delay **line** signal, computed within each **pixel** . This power computation provides the essential nonlinearity for velocity selectivity. The delay **line** architecture differs from the usual pairwise correlation models in that motion information is aggregated over ...

... The design of functional one- and two-dimensional silicon retinas with direction-selective, velocity-tuned **pixels** is described. It is shown that **pixels** with three hexagonal directions of motion selectivity are approximately (225 mu m)/sup 2/ in... ·
  ...Descriptors: delay **lines** ;
  ...Identifiers: velocity-tuned **pixels** ; ...

...unidirectional delay **lines** ; ...

...image **intensity** ; ...

...delay **line** signal

 48/3,K/10   (Item 10 from file: 2)
DIALOG(R)File   2:INSPEC
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04981983   INSPEC Abstract Number: A91124141, C91065645
 Title: An automatic matching **technique for patient alignment**
  Author(s): Badran, A.K.; Fisher, A.C.; Durrani, T.S.; Paul, J.P.
  Author Affiliation: Strathclyde Univ., Glasgow, UK
  Journal: Journal of Biomedical Engineering   vol.13, no.4   p.281-6
  Publication Date: July 1991 Country of Publication: UK
  CODEN: JBIEDR ISSN: 0141-5425
  Language: English
  Subfile: A C

 Title: An automatic matching **technique for patient alignment**
  ...Abstract: the images with respect to each other. The orthogonal relationship between the sagittal and transverse **images** should, in principle, **identify** a single common **line** at the intersection of the two image planes. The basis of the **comparison** requires spatial registration of the two images to correct for the probable translational and rotational tilts as well as for the geometrical and **intensity** distortions. The authors describe a number of automatic techniques which **compare** , **pixel** -by- **pixel** , first two synthetic images, and then their application to real images obtained separately from the...
  ...Identifiers: **intensity** distortion...

...automatic **matching** technique

 48/3,K/11   (Item 11 from file: 2)
DIALOG(R)File   2:INSPEC
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04129681   INSPEC Abstract Number: A88071517
   Title: Photometric determination of facular contrasts near the solar disk center
   Author(s): Lawrence, J.K.; Chapman, G.A.; Herzog, A.D.

   Author Affiliation: Dept. of Phys. & Astron., California State Univ., Northridge, CA, USA

   ...Abstract: of several solar active regions made with 3 AA effective bandpasses in the Ca II **line** at 8662 AA and in the nearby clean continuum at 8642 or 8682 AA. From...

   ... Observatory 28 cm vacuum solar telescope and spectroheliograph and 512 element Reticon linear diode arrays. **Bright** facular **pixels** in the **line images** are used to **identify** facular **pixels** in the corresponding continuum images. After correction for bolometric and stray light effects, a continuum...
   ... center to r=0.45 R/sub (.)/ before increasing. A second data analysis technique, involving **comparison** of quiet photosphere and facular **pixel intensity** distributions, gives a disk center contrast of 0.72%+or-0.14%.
   ...Identifiers: Ca II **line** ; ...

   ... **pixel   intensity** distributions

   48/3,K/12   (Item 1 from file: 6)
   DIALOG(R)File   6:NTIS

2134616 NTIS Accession Number: ADA364592/XAB
   Automatic Rapid Updating of ATR Target Knowledge Bases
   (Final 17 Dec 98-17 Jun 99)
   Wells, B. S. ; Beckner, F. L.
   CyberDynamics, Inc., Palo Alto, CA.
   Corp. Source Codes: 116074000; 415118

   ... system to perform automatic rapid updating of ATR target knowledge databases is investigated. Methods of **comparing** infrared images with CAD model renderings, including object detection, feature extraction, object alignment, **match** quality evaluation, and CAD model updating are researched and analyzed. A GUI-based software application...
   ... described. An improved method of edge detection based on directional masks and second derivatives of **pixel   intensities** is given. A conceptual software system for rapid updating of ATR knowledge databases is described. A technique for the **comparison** of images based on **line** features is discussed. Based on this research it is found that the development of an...

Descriptors: *Target recognition; *Knowledge based systems; *Aerial targets; Computer programs; Automation; **Detection** ; Alignment; Infrared **images** ; **Images** ; Quality control; Masks; Directional; Feature extraction

48/3,K/13   (Item 2 from file: 6)
DIALOG(R)File   6:NTIS
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2003200 NTIS Accession Number: DE96014533
  Advances in imaging with thermal neutrons
  Vanier, P. E. ; Forman, L.
  Brookhaven National Lab., Upton, NY.
  Corp. Source Codes: 004545000; 0936000
  Sponsor: Department of Energy, Washington, DC.
  Report No.: BNL-62712; CONF-960767-52
  1996   6p
  Languages: English   Document Type: Conference proceeding
  Journal Announcement: GRAI9714; ERA9726
  Annual meeting of the Institute of Nuclear Materials Management (37th), Naples, FL (United States), 28-31 Jul 1996. Sponsored by Department of Energy, Washington, DC.
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  NTIS Prices: PC A02/MF A01

  ... combined with coded apertures to produce images by means of thermal neutrons. These images are **comparable** to those produced by gamma ray imaging, but with some important differences. The detector is...

  ... to the thermalized component. Therefore, assuming that the neutron source has a fission spectrum, the **brightest** regions in an image represent moderating material in close proximity to the source, rather than ...

  ...sheet, but the resolution in those experiments was detector-limited at a few centimeters per **pixel** . The newer detector can resolve a **line** image with a fwhm resolution of about 1 mm. The technique could in principle be ...
  Descriptors: *He-3 Counters; *Thermal Neutrons; Arms Control; Cadmium; Californium 252; Design; Image Processing; **Images** ; Monitoring; Neutron **Detection** ; Neutron Sources; Nuclear Materials Management; Nuclear Weapons ; Nuclear Weapons Dismantlement; On-Site Inspection; Plutonium 242...

48/3,K/14   (Item 1 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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05934932   E.I. No: EIP01456720475
  Title: A cumulative distribution function of edge direction for road-lane detection
  Author: Lee, J.-W.; Yi, U.-K.; Baek, K.-R.
  Corporate Source: Department of Industrial Engineering Chonnam National University, Buk-gu, Kwangju 500-757, South Korea
  Source: IEICE Transactions on Information and Systems v E84-D n 9 September 2001. p 1206-1216
  Publication Year: 2001

...Abstract: are no abrupt changes in the direction and location of road
lanes and that the **intensity** of lane boundaries differs from that of the
background, the CDF is formulated, which accumulates...

...a lane. To obtain lane-related information, we construct a scatter
diagram by collecting edge **pixels** , of which the direction corresponds to
the peak point of the CDF, then perform the principal axis-based **line**
fitting for the scatter diagram. Because noises can cause many **similar**
features appear or disappear in an image, to prevent false alarms or miss
detection, a...
   Descriptors: ***Imag** e processing; Edge **detection** ; Roads and streets;
Scattering; Acoustic noise; Alarm systems; Charge coupled devices; Cameras;
Hough transforms

48/3,K/15   (Item 2 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)

   Title: **Semi-automated methodology for discontinuity trace** detection **in
digital** images **of rock mass exposures**
   ...Abstract: detection and discontinuity geometry analysis. This paper
presents a methodology for semi-automated discontinuity trace **detection**
in greyscale digital **images** of rock mass exposures. The methodology
detects discontinuity traces as individual objects, which is a...

...mass exposure digital image as a discrete surface, the elevation of
which is given by **pixel brightness** levels. By doing so, a discontinuity
trace can be likened to a topographic ravine and therefore some **pixels**
within a discontinuity trace can be found by locating the so-called `ravine
 pixels '. A series of digital image processing techniques are then applied
to group and transform these ravine **pixels** into linear structures that
are more suited to computer decision-making, and this results in what we
call ravine- **line** segments. A novel method is presented that links these
ravine- **line** segments together to achieve discontinuity trace detection.
The method considers three criteria during the linking...

...image search, the angles used to control the shape of a discontinuity
trace, and the **brightness** of the **pixels** in the rock mass exposure
image. Case studies show the discontinuity trace maps that result when the
methodology is applied to several rock mass exposure images, and a
comparison is made between a discontinuity trace map produced by the
methodology and several drawn by...

48/3,K/16   (Item 3 from file: 8)

05219405   E.I. No: EIP99024554146
  Title: Nonlinear operators for edge detection and line **scratch removal**
  Author: Kim, Nam-Deuk; Udpa, Satish
  Corporate Source: Iowa State Univ, Ames, IA, USA
  Conference Title: Proceedings of the 1998 IEEE International Conference
on Systems, Man, and Cybernetics. Part 5 (of 5)
  Conference Location: San   Diego,   CA,   USA   Conference   Date:
19981011-19981014
  E.I. Conference No.: 49610
  Source: Proceedings of the IEEE International Conference on Systems, Man
and Cybernetics 5 1998. IEEE, Piscataway, NJ, USA,98CB36218. p 4401-4404
  Publication Year: 1998
  CODEN: PICYE3   ISSN: 1062-922X
  Language: English

  Title: Nonlinear operators for edge detection and line **scratch removal**
  Abstract: A nonlinear edge detection and **line** scratch removal method is
proposed in this paper. The nonlinear operation is performed on the
differences and sums of four neighbor **pixels** . For edge detection, the
first derivative of the image **brightness** function is approximated by
computing the maximum **horizontal** and **vertical** differences along the
vertical and **horizontal** directions, respectively. The edge-detected
result appears to be **similar** to the one obtained using Robert's operator.
The method can be used to smooth out a **line** scratch that manifests itself
as a narrow, **bright** or dark, **vertical** **line** . The minimum (maximum) of
two sums between **horizontal** neighbors is selected for **bright** (dark)
vertical **line** removal. Several frames from a motion picture with **line**
scratches have been processed using this method, and visually pleasing
restoration results have been achieved...
  Descriptors: *Edge **detection** ; **Image** analysis; **Image** quality
  Identifiers: **Line** scratch removal

 48/3,K/17   **(Item 4 from file: 8)**

04544490   E.I. No: EIP96093332815
  **Title: Fast algorithms for automatic moire fringe analysis: application
to noncontact measurements for quality control of industrial components**
  Author: Bruynooghe, M.; Sadki, M.; Harthong, J.; Becker, Axel
  Corporate Source: Univ. Louis Pasteur Strasbourg, Illkirch, Fr
  Conference Title: Vision Systems: Applications
  Conference Location: Micropolis, Fr   Conference Date: 19960610
  E.I. Conference No.: 22621
  Source: Proceedings of SPIE - The International Society for Optical
Engineering v 2786 1996.. p 54-67
  Publication Year: 1996
  CODEN: PSISDG   ISBN: 0-8194-2172-3
  Language: English

  Abstract: Moire methods are optical methods that are based on the effect
of superposition of grating **lines** and have been widely used in the
context of industrial applications for shape analysis, for...

...filtering, fringe skeletonizing and fringe numbering have to be
performed for each test object, before **comparison** between the numerically

reconstructed test object shape and its CAD model. In order to reduce...
...technique has been introduced by Harthong. Instead of using a grating
made of parallel straight **lines** , the inverse moire technique uses a
pre-computed specific gratin, that is formed of curved **lines** such that
the moire pattern is composed of parallel straight fringes if the test
object...

...To overcome this difficulty, we propose a four stage process
algorithmical approach that allows fringe **detection** in inverse moire
images with high sensitivity and specificity. First we used the well-known
image processing technique called...

...enhance moire image and to emphasize low contrasted fringes. The second
step is to extract **bright** fringes by image segmentation and constrained
contour modeling. After detection of these **bright** fringes inside the zone
of interest of the moire image, we get the thick skeleton...

...morphological thinning of well-composed sets, that assures that each
fringe skeleton will be one **pixel** thick, at the difference of standard
thinning techniques. The fourth step is to apply a...

48/3,K/18 . **(Item 5 from file: 8)**
DIALOG(R)File   8:Ei Compendex(R)
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04391628   E.I. No: EIP96043154304
   **Title: Edge detection using neural network for non-uniformly illuminated
images**
   Author: Bhuiyan, Shoaib; Matsuo, Hiroshi; Iwata, Akira; Fujimoto, Hideo;
Satoh, Makoto
   Corporate Source: Nagoya Inst of Technology, Nagoya-shi, Jpn
   Source: IEICE Transactions on Information and Systems v E79-D n 2 Feb
1996. p 150-160
   Publication Year: 1996
   CODEN: ITISEF   ISSN: 0916-8532
   Language: English

   ...Abstract: trial and error, and remain constant for the entire image,
irrespective of the differences in **intensity** level. This paper presents
an improved edge detection method for non-uniformly illuminated images. We
...

...illumination should not remain fixed, rather should vary as a
second-order function of the **intensity** differences between **pixels** , and
actually use a schedule of changing coefficients. The results, **compared**
with those of existing methods, suggest a better strategy for edge
detection depending upon both the dynamic range of the original image
pixel values as well as their contrast. (Author abstract) 18 Refs.
   Descriptors: *Edge **detection** ; Neural networks; **Image** processing;
Lighting; Optical properties; Probability
   Identifiers: Non-uniformly illuminated images; **Line** process energy
function coefficients; Edge growth

48/3,K/19   **(Item 6 from file: 8)**
DIALOG(R)File   8:Ei Compendex(R)
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

04366556   E.I. No: EIP95122937382

Title: **Effects of precipitation on SSM/T-2** brightness **temperature**
   Author: Pickle, John D.; Isaacs, Ronald G.; Jakabhazy, Vida; Griffin, Michael K.; Falcone, Vincent J.
   Corporate Source: Atmospheric and Environmental Research Inc., Cambridge, MA, USA
   Conference Title: Synthetic Aperture Radar and Passive Microwave Sensing
   Conference Location: Paris, Fr   Conference Date: 19950925
   E.I. Conference No.: 22414
   Source: Proceedings of SPIE - The International Society for Optical Engineering v 2584 1995. Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA. p 415-425
   Publication Year: 1995
   CODEN: PSISDG   ISSN: 0277-786X   ISBN: 0-8194-1948-6
   Language: English

   Title: **Effects of precipitation on SSM/T-2** brightness **temperature**
   Abstract: From studies of the special sensor microwave water vapor sounder (SSM/T-2) **brightness** temperature (T//b) measurements, channel signatures were identified for various surface and atmospheric conditions. The sensor consists of 5 channels: three located about the 183 GHz water vapor absorption **line** , one at 150 GHz and a 91.65 GHz window channel. Additional sensor information was used (specifically SSM/I, OLS and GOES visible and infrared **imagery**) to **determine** the presence of clouds and precipitation in the SSM/T-2 field-of-view (FOV). Non-precipitating clouds over water generally display T//b signatures **similar** to clear FOVs although some differences do occur, especially for the 91 GHz channel. For ...

   ...T-2 observations. Techniques that examined the distribution of the T//b differences between neighboring **pixels** appear to provide a robust technique to identify precipitation. This technique also worked over water ...
   Identifiers: **Brightness** temperature; Field-of-view; Manually digitized radar

   48/3,K/20   (Item 7 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

03867357   E.I. No: EIP94051293071
   Title: **Detection and tracking of single-** pixel **targets based on trajectory continuity**
   Author: Wang, Gan; Inigo, Rafael M.
   Corporate Source: Environmental Tectonics Corp, Southampton, PA, USA
   Source: Image and Vision Computing v 11 n 10 Dec 1993. p 641-655
   Publication Year: 1993
   CODEN: IVCODK   ISSN: 0262-8856
   Language: English

   Title: **Detection and tracking of single-** pixel **targets based on trajectory continuity**
   Abstract: A target detection and tracking algorithm has been developed to identify single- **pixel** targets with unknown motion from a time sequence of highly noisy images. The algorithm is...

   ...a target trajectory continuity theory, utilizing temporal continuity and smoothness of target trajectories in both **intensity** and spatial coordinates in an **image** plane to **detect** and simultaneously track multiple targets. With a unique application of the trajectory continuity

theory, the...
...optimum solution is not possible, and at the same time unties the
constraint of straight **line** trajectory that most optimum algorithms
require for **similar** tasks. The algorithm design utilizes a
parallel-distributed computing architecture, which aims for real-time...
   Identifiers: Target detection and tracking algorithm; Target trajectory
continuity theory; Single **pixel** targets

48/3,K/21   (Item 8 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
(c) 2005 Elsevier Eng.   Info. Inc. All rts. reserv.

03037053   E.I. Monthly No: EIM9103-010969
   Title: Hawaii imaging Fabry-Perot interferometers (HIFIs).
   Author: Bland, Jonathan; Tully, Brent R.; Cecil, Gerald N.
   Corporate Source: Rice Univ, Houston, TX, USA
   Conference Title: Instrumentation in Astronomy VII
   Conference Location: Tucson, AZ, USA   Conference Date: 19900213
   E.I. Conference No.: 13853
   Source: Proceedings of SPIE - The International Society for Optical
Engineering v 1235 pt 2. Publ by Int Soc for Optical Engineering,
Bellingham, WA, USA. p 590-600
   Publication Year: 1990
   CODEN: PSISDG   ISSN: 0277-786X   ISBN: 0-8194-0279-6
   Language: English

   Abstract: At Mauna Kea Observatory, we have conducted optical studies of
bright , nearby galaxies using Fabry-Perot systems on both the University
of Hawaii 2.2m and Canada-France-Hawaii 3.6m telescopes. **Comparable**
studies are now possible at near-infrared wavelengths owing to the dramatic
improvement in detector...

...kinematic resolution for a field-of-view as much as 10 prime at
subarcsecond increments **matched** to the seeing disk, enabling narrowband
spectra (approximately 100 angstrom) to be synthesized at approximately
$10^{**}5^{**}-^{**}6$ **pixel** positions. Our approach differs from earlier systems in
the use of high finesse, large free spectral range (approximately 100
angstrom) etalons, and charge-coupled **detectors** (CCD) at the **image**
plane. CCDs afford certain advantages over photon-counting arrays for two
dimensional, kinematic and spectrophotometric...

...of image intensifiers. The high quantum efficiency and linearity over a
wide dynamic range in **intensity** proved to be essential in recent studies
of extended narrow- **line** regions in active galaxies. A major advantage
afforded by photon-counting devices is the ability...

...provide the limitation to rapid scanning. Currently, imaging
Fabry-Perots are the optimal devices for **comparative** spectrophotometry of
strong emission **lines** in the range lambda 0.3 mu to lambda 5 mu .
However, the coming years...

48/3,K/22   (Item 9 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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02207682   E.I. Monthly No: EI8706054076
   Title: APPLE SORTING WITH MACHINE VISION.
   Author: Rehkugler, G. E.; Throop, J. A.

    ...Abstract: A rotating cone and wheel mechanism orients the fruit with
the stemcalyx axis in the **vertical** direction. The fruit is rotated 360
deg on a **vertical** axis spindle and viewed by a 64 **pixel** **line** scan
camera. The digital image captured by the camera and computer represents
most of the surface of the apple. Grey level response to bruised tissue is
represented by reduced image **intensity** . Bruise patterns are **determined**
by **image** filtering, differencing, binary image thresholding and
measurement of the shape of the areas representative of bruises by using
thinness ratios. Bruise areas on apples are predicted and **compared** with
measured bruise areas with a correlation ranging from 0. 63 to 0. 84.
(Edited...

 48/3,K/23   **(Item 1 from file: 34)**
**Title: Virtual endoscopy of the carotid arteries with volume rendering
    computed tomography**
Author(s): Barbieri L; Lorenzini E; Palla L; Battaglia AP; Tagliagambe A
Corporate Source: Osped Civico,UO Radiodiagnost,Carrara/MS/Italy/; Univ
    Pisa,UO Fis Sanitaria,Pisa//Italy/

...Abstract: package of volume data (volume rendering). We describe how
    this software works and its advantages **compared** with reconstruction
    algorithms which only uses part of the available data, i.e. that
    relating to the **pixels** covering the external surface of the model
    (surface rendering).

    We present endoscopic images of the...

...external carotid arteries These images depict the internal surfaces of
    these arteries furrowed by spiral **lines** attributed to vital functions
    like heart beats. Dummy tests using **similar** acquisitions modalities
    and the same software suggest that this hypothesis is incorrect and the
    furrowing...

...like axial multiplanar reconstruction (MPR) with surface rendering (3D),
    volume rendering (Angio-4D) and maximum **intensity** projection (MIP).
    These techniques are correlated with a virtual endoscopic view which
    summarises in a single **image** all the diseases **detected** with the
    other modalities.

    Virtual endoscopy is currently the only method of obtaining images
    of...

 48/3,K/24   **(Item 2 from file: 34)**

08373105   Genuine Article#: 277TR   No. References: 34
Title: Galileo images of lightning on Jupiter
Author(s): Little B (REPRINT) ; Anger CD; Ingersoll AP; Vasavada AR; Senske
    DA; Breneman HH; Borucki WJ
Corporate Source: ITRES RES,SUITE 155, E ATRIUM, 2635 37TH AVE
    NE/CALGARY/AB T1Y 5Z6/CANADA/ (REPRINT); CALTECH,DIV GEOL & PLANETARY
    SCI/PASADENA//CA/91125; CALTECH,JET PROP LAB/PASADENA//CA/91109;
    NASA,AMES RES CTR/MOFFETT FIELD//CA/94035

Abstract: In October and November of 1997 the Galileo Solid State **Imager**
    (SSI) **detected** lightning from 26 storms on the night side of Jupiter,
    More than half the surface...

...the day and night sides. The spatial resolution ranged from 23 to 134 km
    per **pixel** , while the storms ranged in size up to **similar** to 1500
    km, Most storms were imaged more than once, and they typically exhibit
    many...
...2), which is close to the terrestrial value. The limited color
    information is consistent with **line** and continuum emission from
    atomic hydrogen and helium, The **intensity** profiles of resolved
    lightning strikes are bell-shaped, with the half-width at half-maximum
    ranging from **similar** to 45 to 80 km, We used these widths to infer
    the depth of the...

 48/3,K/25   (Item 3 from file: 34)

07535636   Genuine Article#: 178DE   No. References: 31
Title: Comparison **of H al**pha and He II lambda 304 macrospicules
Author(s): Wang HM   (REPRINT)
Corporate Source: NEW JERSEY INST TECHNOL,BIG BEAR SOLAR OBSERV/BIG BEAR
    CITY//CA/92314 (REPRINT)

Title: Comparison **of H alpha and He II lambda 304 macrospicules**
...Abstract: EIT) on board SOHO. For the first time, H alpha and He II
    macrospicules are **compared** , with high spatial and temporal resolution
    and image enhancement. Data were obtained on 1996 October...

...12 bit digital camera to obtain high-resolution H alpha filtergrams at
    -0.65 Angstrom **line** center, and 0.65 Angstrom. The **pixel** resolution
    ranges between 0 ''.17 and 0 ''.33, and temporal resolution ranges
    between 30 and 90 s. EIT images have a fixed **pixel** resolution of 2
    ''.5 and temporal resolution between 1 and 7 minutes. We found the...
...typically in the form of an elongated ejection, whereas H alpha
    macrospicules are either looplike **bright** features or much shorter
    jets. In the polar region, 55 (over 50%) H alpha macrospicules...

...quiet regions. H alpha macrospicules are direct manifestation of
magnetic reconnection. He II lambda 304 **images detect** substantially
taller structures that are substantially hotter. Because of dominant
vertical line configuration near the pole, reconnection tends to
produce He II lambda 304 macrospicules; in the...

48/3,K/26   (Item 4 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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06902043   Genuine Article#: 100UX   No. References: 83
**Title: Life cycle variations of mesoscale convective systems over the
Americas**
Author(s): Machado LAT; Rossow WB (REPRINT) ; Guedes RL; Walker AW
Corporate Source: NASA,GODDARD INST SPACE STUDIES, SCI SYST & APPLICAT INC,
2880 BROADWAY/NEW YORK//NY/10025 (REPRINT); NASA,GODDARD INST SPACE
STUDIES, SCI SYST & APPLICAT INC/NEW YORK//NY/10025; AEROSP TECH
CTR,AERONAUT & SPACE INST, DIV ATMOSPHER SCI/S JOSE CAMPOS//BRAZIL/
Journal: MONTHLY WEATHER REVIEW, 1998, V126, N6 (JUN), P1630-1654
ISSN: 0027-0644   Publication date: 19980600
Publisher: AMER METEOROLOGICAL SOC, 45 BEACON ST, BOSTON, MA 02108-3693
Language: English   Document Type: ARTICLE   (ABSTRACT AVAILABLE)

...Abstract: over the Americas at both tropical and middle latitudes. A
deep convective cloud system is **identified** by adjacent satellite
image pixels with infrared **brightness** temperatures, T-IR < 245 K
(-28 degrees C), that at some time contain embedded convective clusters
that are defined by **pixel** values of T-IR < 218 K (-55 degrees C). The
first part of the analysis...

...and quantify the effects on these statistics produced by different ways
of tracking convective systems. **Comparisons** of the results from
several tracking methods explains how they work and why most of...

...analyzed by a tropical meteorologist who choses the best candidate at
each time step by **comparing** listings of all the calculated parameters
and visually examining each satellite image pair. The whole...
...Identifiers--TROPICAL SQUALL- **LINE** ; PASSIVE MICROWAVE OBSERVATIONS;
MONSOON CLOUD CLUSTERS; ATLANTIC-OCEAN; WESTERN PACIFIC; STRUCTURAL
CHARACTERISTICS; LONGWAVE RADIATION; STRATIFORM...

48/3,K/27   (Item 5 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2005 Inst for Sci Info. All rts. reserv.

04160771   Genuine Article#: RJ766   No. References: 22
Title: SHAPE-RECOGNITION WITH THE FLOW INTEGRATION TRANSFORM
Author(s): STETTEN GD; MORRIS RE
Corporate Source: DUKE UNIV,NSF,ENGN RES CTR EMERGING CARDIOVASC
TECHNOL,DEPT BIOMED ENGN/DURHAM//NC/27706
Journal: INFORMATION SCIENCES, 1995, V85, N4 (JUL), P203-221
ISSN: 0020-0255
Language: ENGLISH   Document Type: ARTICLE   (Abstract Available)

...Abstract: The expected shape serves as a filter for detecting potential
targets. The FIT performs a **line** integral of the dot product of two
vectors: (1) the ''flow'' a vector equal to the gradient of the image's
intensity but rotated counterclockwise by 90 degrees, and (2) the

local tangent to the path of...

...is performed starting at each point in the image, producing a
  two-dimensional transform whose **pixel** value corresponds to the
  relative presence of the expected shape at each location in the...

...information widely dispersed in the image becomes concentrated in a
  local area of the transform. **Compared** to traditional template
  matching using two-dimensional convolution, the correlation in the FIT
  is inherently one-dimensional, resulting in less computation.
  Furthermore, by constraining operations to addition, subtraction, and
  shift-by-one- **pixel** , implementation in high-speed hardware is greatly
  facilitated, with total computation times in the microsecond...
Research Fronts: 93-5057 002   (HOUGH TRANSFORM; CHEMICAL LITERATURE DATA
  EXTRACTION; FAST **LINE** DETECTION IN A HYBRID PYRAMID)
  93-0297 001   (CONFOCAL MICROSCOPY; 3-DIMENSIONAL IMAGING; 2-PHOTON...

...VISUAL AREAS; INFERIOR TEMPORAL CORTEX; SUBCORTICAL CONNECTIONS; MOTION
  AT ISOLUMINANCE; OWL MONKEYS)
  93-5621 001   (**IMAGE** SEGMENTATION TECHNIQUES; AUTOMATIC **DETECTION** ;
  COMPLEX GAUSSIAN INTEGERS FOR GAUSSIAN GRAPHICS)

48/3,K/28   **(Item 6 from file: 34)**
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

01724123   Genuine Article#: HV952   No. References: 31
Title: THE BASAL AND STRONG-FIELD COMPONENTS OF THE SOLAR ATMOSPHERE
Author(s): SCHRIJVER CJ
Corporate Source: UNIV UTRECHT,INST ASTRON,POB 80000/3508 TA
  UTRECHT//NETHERLANDS/; EUROPEAN SPACE AGCY,EUROPEAN SPACE & TECHNOL
  CTR,DEPT SPACE SCI/2200 AG NOORDWIJK//NETHERLANDS/
Journal: ASTRONOMY AND ASTROPHYSICS, 1992, V258, N2 (MAY), P507-520
Language: ENGLISH   Document Type: ARTICLE   (Abstract Available)

Abstract: Spectroheliograms of quiet and active solar regions, observed in
  spectral **lines** originating in the upper chromosphere and transition
  region, are studied. Relationships between **line** **intensities**
  originating at different temperatures in the solar atmosphere are
  quantified presupposing a two-component model...

...ii) a magnetically controlled emission which shows power-law dependences
  between emissions in different spectral **lines** . The spatial extent of
  coronal structures and substantial projection effects inhibit
  derivation of point-by-point **intensity** relationships for coronal
  emissions. The consistency of the results of the modelling yields
  strong evidence...
...basal component dominates the emission from outside the magnetic
  network, but is also present in **pixels** of at least moderate activity
  in network and plage, at the resolution of 5" x 5". The inferred solar
  basal flux density in the C II (1335 angstrom) **line** equals the basal
  flux found for solar-like dwarf stars. The distribution of **intensities**
  associated with the basal component is asymmetric, with a relatively
  strong high- **intensity** tail. This skewness appears related to the
  observed statistics of temporal variability. The relationships between
  upper-chromospheric and transition-region **intensities** in excess of
  the basal **intensities** are generally weakly but significantly
  non-linear with the power-law index deviating more strongly from unity
  with increasing difference of the temperatures of formation of the two

compared emissions.
   ...Research Fronts: ELECTRON-IMPACT EXCITATION; TOKAMAK PLASMAS;
      GROUND-STATE NA; SOLAR CORONA)
   90-4689 001   (TRANSFORMATION INVARIANT **MATCHING** ALGORITHM; **IMAGE**
      INTERPRETATION; AUTOMATED **DETECTION** ; CURVE FITTING; DISCRETE
      CURVATURE)

   48/3,K/29   (Item 1 from file: 35)
   DIALOG(R)File 35:Dissertation Abs Online
   (c) 2005 ProQuest Info&Learning. All rts. reserv.

   01826773 ORDER NO: AADAA-I3009970
   Fundamental analysis and algorithms for development of a mobile fast-scan
   lateral migration radiography system
      Author: Su, Zhong
      Degree: Ph.D.
      Year: 2001
      Corporate Source/Institution: University of Florida (0070)
      Source: VOLUME 62/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
               PAGE 1552. 126 PAGES
      ISBN: 0-493-20015-0

       ...a rectangular grid, and at each node, the systems register
   backscattered photon energy deposition as **pixel   intensity** in acquired
   images. The mechanical movement of the system or objects from **pixel** to
   pixel causes prolonged image scan time with a high percentage of system
   dead time. To avoid...

   ...and tested. The results show a two orders-of-magnitude reduction in
   image scan time **compared** with those of previous systems.
        The x-ray beam formation technique, based on a rotating collimator in
   the LMR system, implements surface **line** scan by sampling an x-ray fan
   beam. This rotating collimator yields unique imaging effects **compared** to
   those for an x-ray beam with fixed collimation and perpendicular incidence:
   (1) ...

   ...object image center from the true object center exists for subsurface
   objects in the collimated **detector   images** ; (2) shadowing effects
   occur for objects that protrude above the scanned surface; (3) ...

   48/3,K/30   (Item 2 from file: 35)
   DIALOG(R)File 35:Dissertation Abs Online
   (c) 2005 ProQuest Info&Learning. All rts. reserv.

   01540358 ORDER NO: AAD97-12244
   BOUNDARY DETECTION **IN ULTRASONIC SPECKLE (** IMAGE **PROCESSING)**
     Author: CZERWINSKI, RICHARD NORMAN
     Degree: PH.D.
     Year: 1996
     Corporate Source/Institution: UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
   (0090)
     Source: VOLUME 57/11-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
              PAGE 7120. 101 PAGES

   BOUNDARY DETECTION **IN ULTRASONIC SPECKLE (** IMAGE **PROCESSING)**

        ...ultrasound speckle imagery. For physiological reasons, we argue
   that boundaries between tissue layers appear as **lines** in ultrasound scans

and approach the boundary detection problem as one of detecting **lines** of
unknown orientation. We define a set of "sticks," short **line** segments of
variable orientation that can locally approximate the boundaries. Using the
physical principles that...

...we derive the optimal detector for sticks of unknown orientation in
fully developed speckle and **compare** the optimal detector to several
suboptimal detection rules which are more computationally efficient. We
show...

...a means of improving performance by estimating the distribution function
of the orientation of the **line** passing through each point. Next, we show
that images can be "stained" for easier visual interpretation by applying
to each **pixel** a false color whose **hue** is related to the orientation of
the most prominent **line** segment at that point. Finally, an analysis is
given of boundary detection approaches in radio...

48/3,K/31   (Item 1 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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04524724   JICST ACCESSION NUMBER: 00A0211635 FILE SEGMENT: JICST-E
**A Ship Wake Detection Method Using the Sum and the Square Sum of Amplitude
    in SAR Images.**
MANIWA HISAKAZU (1); IWAMOTO MASAFUMI (1); KIRIMOTO TETSUO (1)
(1) Mitsubishi Electr. Corp.
Denshi Joho Tsushin Gakkai Ronbunshi B(Transaction of the Institute of
    Electronics, Information and Communication Engineers B), 2000,
    VOL.J83-B,NO.1, PAGE.96-105, FIG.13, REF.10
JOURNAL NUMBER: S0622CAY   ISSN NO: 1344-4697
UNIVERSAL DECIMAL CLASSIFICATION: 621.396.96   681.3:621.397.3
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

...ABSTRACT: surface in the wake of moving ships. As images for these
    waves are observed as **bright** **lines** or dark **lines** with
    SAR(Synthetic Aperture Radar), it is known that wakes can be **detected**
    from SAR **images** . As methods for **detecting** **bright** (dark) **lines**
    of SAR images, a technique using the sum of **pixel** amplitude along
    lines and a tecnique using difference of total amplitude of nearby
    pixels are proposed. This paper clarifies that detection probability
    may deteriorates in conventional detection methods which...

...of SAR images. It proposes a method for ensuring detection performance;
    a method, which detects **line** segments using the sum and the square
    sum of amplitude as indexes. It shows by computer simulation that the
    proposed method can improve detection performance up to 8% in
    comparison with conventional methods.
...BROADER DESCRIPTORS: **line** ;

48/3,K/32   (Item 2 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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02655989   JICST ACCESSION NUMBER: 96A0374589 FILE SEGMENT: JICST-E
Detection of Specular Reflection Using Multiple Intensity **and Range**

Images.
OTSUKI MASAKI (1); SATO YUKIO (1)

OTSUKI MASAKI (1); SATO YUKIO (1)
(1) Nagoya Inst. of Technol.

**Detection of Specular Reflection Using Multiple Intensity and Range
    Images.**

...ABSTRACT: image is described. This image is used as a texture image for
    computer graphics. To **detect** highlight areas, some **images** measured
    from different direction are used. When a highlight area is **detected**
    in a ·**image** , the non-highlight area in another image is adopted for
    the texture. For highlight detection, the dichromatic theory is used.
    In highlight area, the distribution of the **pixel** value is colinear in
    RGB space, and the direction is parallel to light color. In...

...this angle. The range images measured from same viewpoint with texture
    images are used for **image** **matching** . After highlight **detection** ,
    shade is removed using the reflection model of computer graphics. Some
    experiment result are shown...
...DESCRIPTORS: normal **line** ;
...BROADER DESCRIPTORS: **line**

 48/3,K/33   (Item 3 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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**Functional Images for Evaluation of Regional Cardiac Wall Motion From 2-D
    Color Doppler Mapping.**

SUDO OSAMU (1); TSURUOKA SHINJI (1); KIMURA FUMITAKA (1); MIYAKE YASUJI. (1)
; MOTOYASU MUNENOBU (2); SEKIOKA KIYOTSUGU (2); NAKANO TAKESHI (2)
(1) Mie Univ., Fac. of Eng.; (2) Mie Univ.

...ABSTRACT: motion of the whole heart as well. We therefore evaluated two
    functional images: the acceleration **image** , to **detect** asynchronous
    wall motion, and the regional strain **image** , to **detect** pure regional
    wall function while minimizing the effect of translational and
    rotational motion. Color Doppler images and B-mode images measuring
    640*512 **pixels** and having 6-bit resolution were transferred to a work
    station. Identification of the ventricular wall was based on B-mode
    brightness . Acceleration images were obtained from the velocity
    difference between two consecutive frames and frame rate...

...the velocity difference between two appropriately spaced (5 to 7mm)

points along the scan beam **line** . These points were acceptable when both were judged to lie in the ventricular wall. We...

...method in subjects with normal hearts and in those with WPW syndrome, myocardial infarction, and **similar** disorders. In the normal heart, acceleration image the ventricular wall was encoded in approximately homogeneous...

48/3,K/34   (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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01541485 20010706480
Streak artifact reduction in filtered backprojection using a level line **-based interpolation method**
Bruyant, PB; Sau, J; Mallet, J-J
Claude Bernard Univ., Lyon, F
Journal of Nuclear Medicine, v41, n11, pp1913-1919, 2000
Document type: journal article Language: English
Record type: Abstract
ISSN: 0161-5505

Streak artifact reduction in filtered backprojection using a level line **-based interpolation method**

ABSTRACT:
...reasonably time consuming. The process was called IPC (interpolation of projections by contouring) First, level **lines** were plotted on the sinogram to delimit isocount regions; then the regions containing the interpolated points were found, and to each point was assigned the **intensity** of its isocount region. Using this process, the data could be resampled, allowing an increase in the number of projections or the number of **pixels** by projections. A phantom study of bone scintigraphy was performed to **compare** the slices obtained with and without the IPC process with the true image. A clinical...

...body, when the sinogram was resampled to multiply by 2 or 3 the number of **pixels** per projection. In the clinical study, the streak artifact was reduced, especially outside the body...
DESCRIPTORS: COMPUTED TOMOGRAPHY; DATA ACQUISITION; IMAGE RECONSTRUCTION; ARTEFACT; FILTERED BACKPROJECTION; CONTOUR **DETECTION** ; ALGORITHM; **IMAGE** EVALUATION; STREAKINESS

48/3,K/35   (Item 2 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
(c) 2005 FIZ TECHNIK. All rts. reserv.

01206042 I98051503300
Boundary extraction from gray-scale document images based on surface data structures
Nishida, H
Software Res. Center, Ricoh Co. Ltd., Tokyo, Japan
Graphical Models and Image Processing, v60, n1, pp35-45, 1998
Document type: journal article Language: English
Record type: Abstract
ISSN: 1077-3169

ABSTRACT:

...important problem from a practical point of view. In traditional approaches, features such as center **lines** of strokes or contours are extracted from binary images obtained by thresholding the gray-scale **intensity** images, Wang and Pavlidis (1993) have recently pointed out that effective features for recognition should be extracted directly from original gray-scale **intensity** images in order to avoid a significant amount of information loss caused by binarization. In...

...image can be treated as a surface defined over a two-dimensional space by regarding **intensity** values associated with **pixels** as height. This method is based on a simple model that assumes a closed boundary of document components can be approximated as a series of **horizontal** (parallel to the image plane) **line** segments and can be extracted by linking surface components with steep gradients based on configurations of intersections of **horizontal** planes and surface components. Furthermore, the gray-scale image can be converted into a binary...

...accept output of the proposed algorithm as input. The performance of the proposed algorithm is **compared** with some binarization algorithms based on global and local thresholding of **intensity** values and is shown to be effective for improving recognition accuracy for very poor quality...
DESCRIPTORS: BOUNDARY **DETECTION** ; FEATURE EXTRACTION; **IMAGE** RECOGNITION; BINARY CODE; FEATURES

 48/3,K/36   (Item 1 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2005 INIST/CNRS. All rts. reserv.

 14377004   PASCAL No.: 00-0029673
 Automated endoscope navigation and advisory system from medical imaging
 Physiology and function from multidimensional images : San Diego CA,
21-23 February 1999
 CHEE KEONG KWOH; KHAN G N; GILLIES D F
 CHIN-TU CHEN, ed; CLOUGH Anne V, ed
 School of Applied Science, Nanyang Technological University, Blk N4, #2A-36, Nanyang Avenue, 639798, Singapore; Department of Computing, Imperial College of Science, Technology and Medicine, 180 Queen's Gate, London SW7 2BZ, United Kingdom
 International Society for Optical Engineering, Bellingham WA, United States.; American Association of Physicists in Medicine, Chicago IL, United States.; American Physiological Society, United States.; Food and Drug Administration, Washington DC, United States.; Society for Imaging Science and Technology, Springfield VA, United States.; National Electrical Manufacturers Association, Washington DC, United States.; Radiological Society of North America, Oak Brook IL, United States.; Society for Computer Applications in Radiology, Unknown.
 Physiology and function from multidimensional images. Conference (San Diego CA USA) 1999-02-21
 Journal: SPIE proceedings series, 1999, 3660 214-224
 Language: English

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 ...images to be divided into overlapping squares (8 by 8 or 4 by 4) where **line** segments are extracted by using a Hough transform. Perceptual criteria such as proximity, connectivity, similarity in orientation, contrast and edge **pixel** **intensity** , are used to group edges both strong and weak. This approach is called perceptual grouping...

... in most cases corresponds to the lumen. The algorithm constructs the quadtree from the bottom (**pixel**) level upward, recursively and computes the mean and variance of image regions corresponding to quadtree...

... light source very close to the camera. If we assume the colon has a shape **similar** to a tube, then a reasonable approximation of the position of the center of the...

English Descriptors: Endoscopy; Navigation; Automatic system; Medical **imagery** ; System design; Edge **detection** ; **Image** analysis; Segmentation ; Probabilistic approach; Optimization; Learning; Computer aid

French Descriptors: Endoscopie; Navigation; Systeme automatique; Imagerie medicale; Conception systeme; **Detection** contour; Analyse **image** ; Segmentation; Approche probabiliste; Optimisation; Apprentissage; Assistance ordinateur

48/3,K/37   (Item 2 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2005 INIST/CNRS. All rts. reserv.

   13870677   PASCAL No.: 99-0048820
   Repairing flaws in a picture based on a geometric representation of a digital image
   Algorithms and computation : Taejon, 14-16 December 1998
   ASANO T; ITO H; KIMURA S; SHIMAZU S
   KYUNG-YONG CHWA, ed; IBARRA Oscar H, ed
   School of Information Science, JAIST, Asahidai, Tatsunokuchi, 923-1292, Japan; Dept. of Information and Computer Sciences, Toyohasi University of Technology, Tenpaku-tyo, Toyohasi, 441-8580, Japan; Development Department Graphic Arts Division, Dainippon Screen MFG. Co., Ltd., Teranouchi-agaru 4, Horikawa-dori, Kamigyo-ku, Kyoto, 602-8585, Japan
   ISAAC'98 : international symposium on algorithms and computation, 9 (Taejon KOR) 1998-12-14
   Journal: Lecture notes in computer science, 1998, 1533 149-158
   Language: English

   ... such repair is to paste a flaw region with white and then to move those **pixels** in the neighborhood by using a tool called an copy-brush. Since it is a...
ʼ...of an image. In our geometric representation of an image as a collection of contour **lines** for **intensity** levels this problem is naturally defined as one of reconnecting those contour **lines** disconnected by a flaw region. An efficient algorithm for reconnecting contour **lines** is presented based on perfect **matching** and observations on geometric properties of interconnection paths.

French Descriptors: Geometrie algorithmique; Algorithme optimal; Performance algorithme; Analyse **image** ; Analyse forme; **Detection** contour

48/3,K/38   (Item 3 from file: 144)
DIALOG(R)File 144:Pascal
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   12935867   PASCAL No.: 97-0208129

A gradient based line **detector. Discussion. Author's reply**
Remote sensing : a valuable source of information : Toulouse, 22-25 April 1996
La teledetection - source precieuse de renseignements
LACROIX V; ACHEROY M; MCKEAN M comment; ACHEROY M comment; SCHWEICHER E comment
Ecole Royale Militaire, Av. de la Renaissance, 30, 1050 Bruxelles, Belgium
Remote sensing : a valuable source of information. Symposium (Toulouse FRA) 1996-04-22
Journal: AGARD Conference Proceedings, 1996 (582) 27.1-27.8
Language: English

A gradient based line **detector. Discussion. Author's reply**
... routine tasks and to develop algorithms extracting specific information. In this framework, we present a **line** extractor that, combined with an edge detector, will provide a useful tool for obtaining a vector-like description of satellite images. The **line** extractor output is based on the dot product of the gradient vectors computed in two **pixels** taken symmetrically around the current **pixel** . If the latter lies on the middle of the **line** , and not the others, the dot product will be negative, as gradient vectors point in...

... investigation of the four nearest neighbour pairs is sufficient to determine the presence of a **line** . Exploring a larger neighbourhood enables to get an approximation of the local **line** **width** . Moreover, the operator can be set to detect selectively dark or **bright** **lines** , or both. As for the edge detection process, a non-maximum suppression and a **line** following algorithm are needed to generate one **pixel** wide **line** elements. The GLD is **compared** to the Duda Road Operator on a test image and on satellite images.

French Descriptors: Imagerie; Teledetection; Methode satellite; Traitement donnee; Algorithme; SPOT; **Detecteur** ; Traitement **image** ; ERS

48/3,K/39   (Item 4 from file: 144)
DIALOG(R)File 144:Pascal
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12890262   PASCAL No.: 97-0153783
Real-time defect detection in fruit - Part II : An algorithm and performance of a prototype system
CROWE T G; DELWICHE M J
Biological and Agricultural Engineering Department, University of California, Davis, United States
Journal: Transactions of the ASAE, 1996, 39 (6) 2309-2317
Language: English

... implemented with a pipeline image processing system. Information from the structured illumination portion of each **image** was used to **distinguish** between defects and concavities which both appeared as dark spots in the diffusely illuminated scene...

... of defects on each fruit was estimated, and subsequent classification was based on the defect **pixel** total. Apples and peaches were tested at a

rate of 5 fruit/s to evaluate system performance. By adjusting the defect **pixel** threshold to achieve a 25% error rate on good apples, classification errors for bruise, crack, and cut classes were 51%, 42%, and 46%, respectively. **Comparable** results for bruise, scar, and cut peach classes were 48%, 22%, and 58%, respectively. Specular...

... apple data. Acquiring more than two images of each fruit and using more than six **lines** of structured illumination per fruit would reduce sorting errors. Potential sorting efficiencies were determined by...

... which a defect was not presented to the camera or the concavity was between consecutive **lines** of structured illumination. With a 25% sorting error rate for good classes, the classification error...

English Descriptors: Algorithm; **Image** analysis; Defect **detection** ; **Imager** ; System performance; Prototype; Near infrared spectrum; Real time ; Image processing; Sorting; Prunus persica; Peach; Grading...

French Descriptors: Algorithme; Analyse **image** ; **Detection** defaut; **Imageur** ; Performance systeme; Prototype; Spectre IR proche; Temps reel; Traitement image; Triage; Prunus persica; Peche(fruit...
...Broad Descriptors: Aparato ensayo; Postcosecha; Control automatico; Control calidad; Industria frutas; Optica electronica; Vision artificial; Fruto con **hueso**
?

54/3,K/1   (Item 1 from file: 2)
DIALOG(R)File   2:INSPEC

07743418   INSPEC Abstract Number: C2000-12-5260B-092
   Title: Extraction of characters from color documents
   Author(s): Kasuga, H.; Okamoto, M.; Yamamoto, H.
   Author Affiliation: Dept. of Inf. Eng., Shinshu Univ., Nagano, ·Japan
   Journal: Proceedings of the SPIE - The International Society for Optical
Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)
vol.3967   p.278-85
   Conference Title: Document Recognition and Retrieval VII
   Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol
   Conference Date: 26-27 Jan. 2000   Conference Location: San Jose, CA,
USA
   Language: English
   Subfile: C
   Abstract: An algorithm for extracting **character   strings** from color
documents is described. Most characters on color documents are printed with
the same color and font size at every word or text **line** . The blobs of
pixels which have similar color are extracted by a clustering in a color
space. Although these blobs correspond to characters or 'background
patterns, they can be discriminated by using the **features** of sizes,
aspect ratios and pitches of the circumscribing rectangles of the blobs.
Some experimental...
   ...Identifiers: **character   strings** ; ...

... **pixels** ;

 54/3,K/2   (Item 2 from file: 2)
DIALOG(R)File   2:INSPEC

07091609 ` INSPEC Abstract Number: B9901-6135E-032, C9901-5260B-063
   **Title: A system for automatic extraction of the user-entered data from
bankchecks**
   Author(s): Koerich, A.; Lee Luan Ling
   Author Affiliation: Centro Fed. de Educacao Technol. do Parana, Brazil
   Conference Title: Proceedings SIBGRAPI'98. International Symposium on
Computer Graphics, Image Processing, and Vision (Cat. No.98EX237)   p.
270-7
   Editor(s): da Fontoura Costa, L.; Camara, G.
   Conference Title: Proceedings SIBGRAPI'98. International Symposium on
Computer Graphics, Image Processing, and Vision
   Conference Sponsor: Inst. Fisica de Sao Carlos (IFSC-USP); Inst.
Pesquisas Espaciais (INPE); Sociedade Brasileira de Computacao (SBC);
Fundacao de Amparo a Pesquisa do Estado de Sao Paulo (FAPESP); Fundacao de
Amparo a Pesquisa do Estado do Rio de Janeiro (FAPERJ); Sociedade

Brasileira de Computacao (SBC); Conselho Nacional de Desenvolvimento Cientifico e Technol. (CNPq); Fundacao Coordenacao de Aperfeioamento de Pessoal de Nivel Superior (CAPES)
   Conference Date: 20-23 Oct. 1998   Conference Location: Rio de Janeiro, Brazil
   Language: English
   Subfile: B C
   Copyright 1998, IEE

   ...Abstract: layout structure of bankchecks is standardized, that any bankcheck can be identified through the MICR **line** and that a sample of the background pattern is available for every bankcheck. Based on...

... the user-entered data. The extracted data still shows the presence of the background pattern, **character** **strings** , and vertical and horizontal **lines** . The background pattern is eliminated by a morphological subtraction operation while the baselines are erased using an algorithm based on the projection profiles. The printed **character** **strings** are eliminated through a morphological subtraction between the image covered by the signature area and a sample of the **character** **strings** generated by the system. Finally, a post-processing algorithm is used for recovering some erased **pixels** . Experimental results show that this approach is robust and efficient for automatic extracting the user...
   ...Descriptors: **feature** extraction
   ...Identifiers: MICR **line** ; ...

... **character** **strings** ;

   54/3,K/3   **(Item 3 from file: 2)**
DIALOG(R)File   2:INSPEC
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06641535   INSPEC Abstract Number: C9709-5260B-038
   Title: **Extraction of** character string **region on signboard from scene image using adaptive threshold methods**
   Author(s): Matsuo, K.; Ueda, K.; Umeda, M.
   Author Affiliation: Dept. of Comput. Sci., Nara Nat. Coll. of Technol., Yamatokohriyama, Japan
   Journal: Transactions of the Institute of Electronics, Information and Communication Engineers D-II   vol.J80D-II, no.6   p.1617-26
   Publisher: Inst. Electron. Inf. & Commun. Eng,
   Publication Date: June 1997 Country of Publication: Japan
   CODEN: DTGDE7 ISSN: 0915-1923
   SICI: 0915-1923(199706)J80DII:6L.1617:ECSR;1-S
   Material Identity Number: M973-97007
   Language: Japanese
   Subfile: C
   Copyright 1997, IEE

   Title: **Extraction of** character string **region on signboard from scene image using adaptive threshold methods**
   Abstract: Proposes a method of extracting the **character - string** region on a signboard from a scene image using an adaptive threshold method. In this...

... is divided into several binary images by either using the complexity or the mean adjacent **pixel** number. Each binary image is obtained by using the threshold which is detected from the...

... Candidate rectangles which surround characters are decided by the connectivity in each image, and the **character - string** area is extracted by integrating these candidates in all binary images. Experimental results show that 93.3% of the characters, 85.0% of the **character strings** and 97 **lines** of a **character - string** region included in 100 different types of color scene images are correctly extracted by the...
   Descriptors: **feature** extraction...
   Identifiers: **character string** region extraction...

...mean adjacent **pixel** number...

54/3,K/4   (Item 4 from file: 2)
DIALOG(R)File   2:INSPEC
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06484151   INSPEC Abstract Number: B9703-6140C-101, C9703-5260B-048
   Title: ·**An edge-based block segmentation and classification for document analysis with automatic** character string **extraction**
   Author(s): Chang-Joon Park; Joon-Hyung Jeon; Tak-Mo Koo; Heung-Moon Choi
   Author Affiliation: Sch. of Electron. & Electr. Eng., Kyungpook Nat. Univ., Taegu, South Korea
   Conference Title: 1996 IEEE International Conference on Systems, Man and Cybernetics. Information Intelligence and Systems (Cat. No.96CH35929)
Part vol.1   p.707-12 vol.1
   Publisher: IEEE, New York, NY, USA
   Publication Date: 1996 Country of Publication: USA   4 vol. 3234 pp.
   ISBN: 0 7803 3280 6   Material Identity Number: XX96-02473
   U.S. Copyright Clearance Center Code: 0 7803 3280 6/96/$5.00
   Conference Title: Proceedings of IEEE International Conference on Systems, Man and Cybernetics
   Conference Sponsor: Tsinghua Univ
   Conference Date: 14-17 Oct. 1996   Conference Location: Beijing, China
   Language: English
   Subfile: B C
   Copyright 1997, IEE
   Title: **An edge-based block segmentation and classification for document analysis with automatic** character string **extraction**
   Abstract: Presents an edge-based block segmentation and classification with automatic **character string** extraction for document analysis. By exploiting only four edge **features** from the gradient and the orientation of the edge **pixels** , we can make the block segmentations, classifications, and the ·**character string** extractions all insensitive to the background noise and the brightness variation of the image. We...

... an efficient block segmentation with reduced memory size by introducing the column and the text **line** intervals of the document in CRLA (constrained run length algorithm). The simulation results show that an efficient document image segmentation, block classification, and the **character string** extraction can be done concurrently.
   ...Descriptors: **feature** extraction
   ...Identifiers: automatic **character string** extraction...

54/3,K/5   (Item 5 from file: 2)
DIALOG(R)File   2:INSPEC
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06462222   INSPEC Abstract Number: C9702-5260B-203
   Title: **A multiple** feature **/resolution approach to handprinted digit and**

character recognition
  Author(s): Favata, J.T.; Srikantan, G.
  Author Affiliation: CEDAR, State Univ. of New York, Buffalo, NY, USA
  Journal: International Journal of Imaging Systems and Technology
vol.7, no.4   p.304-11
  Publisher: Wiley,
  Publication Date: Winter 1996 Country of Publication: USA
  CODEN: IJITEG ISSN: 0899-9457
  SICI: 0899-9457(199624)7:4L.304:MFRA;1-B
  Material Identity Number: N714-96005
  U.S. Copyright Clearance Center Code: 0899-9457/96/040304-08
  Language: English
  Subfile: C
  Copyright 1997, IEE

  Title: **A multiple** feature **/resolution approach to handprinted digit and**
character recognition
  ...Abstract: successfully in several document reading applications. The
GSC algorithm takes a quasi-multiresolution approach to **feature**
generation; i.e. several distinct **feature** types are applied at different
scales in the image. These computed **features** measure the image
characteristics at local, intermediate and large scales. The local-scale
features measure edge curvature in a neighborhood of a **pixel** , the
intermediate **features** measure short stroke types which span several
pixels , and the large **features** measure certain concavities which can
span across the image. This philosophy, when coupled with the...

... This allows it to be used in document reading algorithms which search
for digit or **character** **strings** embedded in a field of objects.
Applications of this paradigm to off- **line** digit string recognition and
handwritten word recognition are discussed. Tests of the GSC classifier on
...
  Descriptors: **feature** extraction...
  Identifiers: multiple **feature** /resolution approach...

... **feature** generation...

... **feature** types...

...image **characteristics** ; ...

...off- **line** digit string recognition

 54/3,K/6   **(Item 1 from file: 8)**
DIALOG(R)File   8:Ei Compendex(R)
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

05759034   E.I. No: EIP01015486494
  Title: Extraction of character string **region by a correlation method**
  Author: Miyamoto, Kazumasa; Tamagawa, Mitsuaki; Fujita, Ichiro; Hayama,
Yasunobu; Eiho, Shigeru
  Corporate Source: MHI Ltd, Kobe, Jpn
  Source: Systems and Computers in Japan v 30 n 14 Dec 1999. p 43-52
  Publication Year: 1999
  CODEN: SCJAEP   ISSN: 0882-1666
  Language: English

  Title: Extraction of character string **region by a correlation method**
  ...Abstract: article describes a three-level thresholding method that is

used for the preprocessing for searching **character - string** regions on a natural image, and a method of defining the region by using the...

...are represented by 1 or minus 1. The correlation procedure that is made by multiplying **pixel values** of the two images, one of which is shifted by the width of a **line** segment of a character, can generate a character region in high probability. A character region...
   Descriptors: *Optical character recognition; **Feature** extraction; Optical correlation; Image analysis; Image quality; Image segmentation; Probability; Vehicle locating systems; License plates...

   54/3,K/7   (Item 2 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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04624224   E.I. No: EIP97023525956
   Title: Edge-based block segmentation and classification for document analysis with automatic character string **extraction**
   Author: Park, Chang-Joon; Jeon, Joon-Hyung; Koo, Tak-Mo; Choi, Heung-Moon.
   Corporate Source: Kyungpook Natl Univ, Taegu, South Korea
   Conference Title: Proceedings of the 1996 IEEE International Conference on Systems, Man and Cybernetics
   Conference Location: Beijing, China   Conference Date: 19961014-19961017
   E.I. Conference No.: 46016
   Source: Proceedings of the IEEE International Conference on Systems, Man and Cybernetics v 1 1996. IEEE, Piscataway, NJ, USA,96CH35929. p 707-712
   Publication Year: 1996
   CODEN: PICYE3   ISSN: 0884-3627
   Language: English

   Title: Edge-based block segmentation and classification for document analysis with automatic character string **extraction** .
   Abstract: This paper presents an edge-based block and classification with automatic **character string** extraction for document analysis. By exploiting only four edge **features** from the gradient and the orientation of the edge **pixels** , we can make the block segmentations, classifications, and the **character string** extractions all insensitive to the background noise and the brightness variation of the image. We...

...an efficient block segmentation with reduced memory size by introducing the column and the text **line** intervals of the document in CRLA (constrained run length algorithm). The simulation results show that an efficient document image segmentation, block classification, and the **character** string extraction can be done concurrently. (Author abstract) 11 Refs.
   Descriptors: ***Featur** e extraction; Image segmentation; Character recognition; Image analysis; Algorithms; Computer simulation; Edge detection   .
   Identifiers: Automatic **character string** extraction; Constrained run length algorithm (CRLA)

   54/3,K/8   (Item 3 from file: 8)
DIALOG(R)File   8:Ei Compendex(R)
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01127703   E.I. Monthly No: EI8207057239   E.I. Yearly No: EI82017765
   Title: DESCRIPTION METHOD OF BINARY FIGURES BY MEANS OF A STRING OF LABELED REGIONS AND ITS APPLICATIONS.

Author: Agui, Takeshi; Iwata, Koichi
Corporate Source: Tokyo Inst of Technol, Yokohama, Jpn

...Abstract: the inclusion relation and/or disjoint relation among closed
regions. As an example of the **string** description, **alphabet characters**
are classified into homotopy equivalence groups. This method is applied to
line drawings of an animation cel, and the extraction and reconstruction
of closed regions included in **line** drawings are easily and rapidly
executed. In experiments, scanned-in **line** drawings of animation cels are
of one- or two- **pixel** thickness. This method is expected to be useful for
the study of automatic painting of a sequence of animation cels, where the
positions and **shapes** of figures are changed cel-by-cel.

54/3,K/9   (Item 1 from file: 94)
DIALOG(R)File 94:JICST-EPlus

05111540   JICST ACCESSION NUMBER: 02A0237226 FILE SEGMENT: JICST-E
**Character Extraction and Recognition for Low-Resolution Color Images using
    Dominant-Color-based- Line -Segment Method.**
HAMANAKA MASAHIKO (1)
(1) Nec Maruchimediaken
Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report
    (Institute of Electronics, Information and Communication Enginners),
    2001, VOL.101,NO.525(PRMU2001 176-193), PAGE.109-116, FIG.9, TBL.2,
    REF.18
JOURNAL NUMBER: S0532BBG
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:165
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

**Character Extraction and Recognition for Low-Resolution Color Images using
    Dominant-Color-based- Line -Segment Method.**
...ABSTRACT: in the multi-scale contributivity images. The contributivity
    images are generated using Dominant-Color-based- **Line** -Segment Method
    which decides **pixel   values** based on contributions of dominant
    colors to the **pixel** colors by calculating distances between the
    pixel colors and **line** -segments through pairs of dominant colors.
    Experiments using web images show that the proposed method...
...DESCRIPTORS: **feature** extraction...

... **character   string** ; ...

...many- **valued** logic

54/3,K/10   (Item 2 from file: 94)
DIALOG(R)File 94:JICST-EPlus

04947928   JICST ACCESSION NUMBER: 01A0795387 FILE SEGMENT: JICST-E
An Augmented Method For Finding Character Lines From a Gray Scene Image.

LIU Y (1); OHNISHI N (1); YAMAMURA T (2); TANAKA T (3)
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    Univ., Aichi, Jpn; (3) Meijo Univ., Aichi, Jpn

An Augmented Method For Finding Character Lines **From a Gray Scene Image.**
ABSTRACT: An augmented method for finding character **lines** in a gray scene
    image is proposed. In the proposed approach, we use several heuristics
    of both characters (such as size, symmetry of **pixels** and bimodality
    of intensity histogram) and character **lines** (such as proximity of
    characters and alignment of arrangement) to discriminate characters
    from other objects...
...DESCRIPTORS: **character   string** ; ...

... **pixel** ; ...

...maximum **value** ; ...

...minimum **value** ;
...BROADER DESCRIPTORS: maximal **value** ; ...

...extremal **value** ; ...

...numerical **value** ; ...

...minimal **value** ;

 54/3,K/11   **(Item 3 from file: 94)**
DIALOG(R)File   94:JICST-EPlus
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On- line **Handwriting Recognition by Real-time Character Segmentation.**
AIZAWA HIROSHI (1); WAKAHARA TOORU (1); ODAKA KAZUMI (1)
(1) Nippon Telegraph & Telephone Corp., Human Interface Lab.

On- line **Handwriting Recognition by Real-time Character Segmentation.**
...DESCRIPTORS: **character   string** ; ...

... **feature** extraction...

... **pixel**

 54/3,K/12   (Item 4 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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04828967   JICST ACCESSION NUMBER: 96A0356063 FILE SEGMENT: JICST-E
On- line **Handwritten** Character   String **Segmentation Using Multiple**
   Stroke Features .
AIZAWA HIROSHI (1); WAKAHARA TOORU (1); ODAKA KAZUMI (1)
(1) Nippon Telegraph & Telephone Corp., Human Interface Lab.
Denshi Joho Tsushin Gakkai Taikai Koen Ronbunshu(Proceedings of the IEICE
   General Conference (Institute of Electronics, Information and
   Communication Engineers), 1996, VOL.1996,NO.Sogo Pt 7, PAGE.238, FIG.4,
   TBL.1, REF.2
JOURNAL NUMBER: G0508AEP
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:165   681.3:007.52
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Conference Proceeding
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication

On- line **Handwritten** Character   String **Segmentation Using Multiple**
   Stroke Features .
...DESCRIPTORS: **feature** extraction...

... **pixel** ;
...BROADER DESCRIPTORS: numerical **value** ;

 54/3,K/13   (Item 5 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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04637978   JICST ACCESSION NUMBER: 00A0743169 FILE SEGMENT: JICST-E
An On- line **Writing-box-free and Writing-direction Free Recognition System**
   for Handwritten Japanese Text.
INAMURA YUICHI (1); FUKUSHIMA TAKAHIRO (1); NAKAGAWA MASAKI (1)
(1) Tokyo Univ. of Agric. and Technol., Grad. Sch.
Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report
   (Institute of Electronics, Information and Communication Enginners),
   2000, VOL.100,NO.135(PRMU2000 35-40), PAGE.17-24, FIG.17, TBL.2, REF.8
JOURNAL NUMBER: S0532BBG
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:165
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

An On- line **Writing-box-free and Writing-direction Free Recognition System**
   for Handwritten Japanese Text.
ABSTRACT: This paper describes an on- **line** handwritten text recognition
   system based on a new segmentation method that is liberated from
   character writing boxes and constraints on writing directions. The new
   method estimates writing direction using geometrical **characteristics**
   for every text divided by breaks, and then hypothetically segments each
   text **line** into characters following the text direction. Adopting this
   method in an existing system has realized on- **line** recognition of
   freely written Japanese text without depending on character writing

boxes and the restriction on the text **line** direction. (author abst.)
...DESCRIPTORS: **character** **string** ; ...

... **pixel**

54/3,K/14 **(Item 6 from file: 94)**
DIALOG(R)File   94:JICST-EPlus
(c)2005 Japan Science and Tech Corp(JST). All rts. reserv.

04148953   JICST ACCESSION NUMBER: 99A0569938   FILE SEGMENT: JICST-E
Recognition of Connective Relationship among Blocks from House Maps.
SHIMASAKI TAKAMASA (1); WATANABE TOYOHIDE (1)
(1) Nagoya Univ., Grad. Sch.
Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report
     (Institute of Electronics, Information and Communication Enginners),
     1999, VOL.99,NO.47(PRMU99 1-11), PAGE.9-16, FIG.10, TBL.1, REF.8
JOURNAL NUMBER: S0532BBG
UNIVERSAL DECIMAL CLASSIFICATION: 528:681.3   681.3:165
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

...ABSTRACT: house maps. In comparison with table-form documents, house
     maps have little restrictions about block **shape** and this makes
     difficult to extract connective relationships among blocks. To cope
     with this difficulty, we use not only block **line** segments but also
     block areas, which are composed of connective background **pixels** in
     house map images. In addition to the explanation about out method, this
     paper evaluates...
...DESCRIPTORS: straight **line** ; ...

... **feature** extraction...

... **character** **string** ;
...BROADER DESCRIPTORS: **line** ;

54/3,K/15 **(Item 7 from file: 94)**
DIALOG(R)File   94:JICST-EPlus
(c)2005 Japan Science and Tech Corp(JST). All rts. reserv.

04139100   JICST ACCESSION NUMBER: 99A0327031   FILE SEGMENT: JICST-E
Character Recognition and Its Application.
MORI SHUNJI (1)
(1) Aizu Univ.
Joho Shori, 1999, VOL.40,NO.3, PAGE.269-273, FIG.6, REF.4
JOURNAL NUMBER: G0427AAZ   ISSN NO: 0447-8053
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:165
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Commentary
MEDIA TYPE: Printed Publication

...ABSTRACT: template matching which is a basis of the character
     recognition technique is explained, and the **feature** extraction and
     the pitfall are also mentioned.
...DESCRIPTORS: **feature** extraction...

... **character   string ;** ...

... **pixel ;**
...BROADER DESCRIPTORS: **line ;**

 54/3,K/16   (Item 8 from file: 94)
DIALOG(R)File   94:JICST-EPlus

03474837 . JICST ACCESSION NUMBER: 98A0317500 FILE SEGMENT: .JICST-E
**A Matching Method of Off- line Handwritten Character Pattern using an
    Elastic Stroke Model.**
NAGASAKI TAKESHI (1); YAMAMOTO TAKAYOSHI (1); NAKAGAWA MASAKI (1)
(1) Tokyo Univ. of Agric. and Technol., Fac. of Technol.
Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report
    (Institute of Electronics, Information and Communication Enginners),
    1998, VOL.97,NO.558(PRMU97 217-239), PAGE.39-44, FIG.6, TBL.2, REF.9
JOURNAL NUMBER: S0532BBG
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:165
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

**A Matching Method of Off- line Handwritten Character Pattern using an
    Elastic Stroke Model.**
ABSTRACT: This paper presents an off- **line** pattern matching method based
    on a relaxation process. The method employs rubber **string** models as
    standard **character** patterns(called an "Elastic Stroke Model") to
    absorb deformation of handwritten character patterns. A pattern...
...DESCRIPTORS: **pixel**
...BROADER DESCRIPTORS: many- **valued** logic...

 54/3,K/17   (Item 9 from file: 94)
DIALOG(R)File   94:JICST-EPlus

02680216   JICST ACCESSION NUMBER: 95A0707180 FILE SEGMENT: JICST-E
**Handwritten Character Segmentation Using Smoothing Histogram and
    Discriminant Analysis.**
NAKAJIMA MASAOMI (1); YONEKURA YUJI (1)
(1) EnutitiDetatsushin
Denshi Joho Tsushin Gakkai Ronbunshi. D,2(Transactions of the Institute of
    Electronics, Information and Communication Engineers. D-2), 1995,
    VOL.78,NO.7, PAGE.1039-1046, FIG.5·, TBL.4, REF.12 .
JOURNAL NUMBER: L0197AAM . ISSN NO: 0915-1923
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:165
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

ABSTRACT: The processing of making the character based on the
    characteristic of the character in **shape** from the freely written-in
    free-pitch character **line** without setting the filling-up frame for
    every character, is mainly composed of the processing...

...contacted characters and the process to integrate separated characters

to the direction of the character **line** . In this paper, the character
making with high precision is attempted by proposing applicable methods
for two processings, respectively. The method to cut off contacted
characters has the **feature** to limit the scope in which the contact
can be caused from the result of smoothing the marginal distribution
which counted black **pixel** numbers vertically to the direction of the
character **line** and then to decide the contact position in detail.
Therefore, the separation of characters is...

...characters contact continuously. The method to integrate separated
characters to the direction of the chracter **line** has the **feature** to
apply the discrimination analysis model for multiple **characteristics**
extracted with respect to the degree of separation, degree of isolation
and size of the...

...be made with about 90% of accuracy when this system was applied for the
character **line** consisted of the address part and the name of place
part.
...DESCRIPTORS: **feature** extraction...

... **pixel** ; ...
... **character** string

 54/3,K/18   (Item 10 from file: 94)
DIALOG(R)File 94:JICST-EPlus

02227385   JICST ACCESSION NUMBER: 95A0021777 FILE SEGMENT: JICST-E
An algorithm for extraction of dotted- line **and designed-** line **using
Hough transform.**
GOTO HIDEAKI (1); ASO HIROTOMO (1)
(1) Tohoku Univ., Fac. of Eng.
Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report
    (Institute of Electronics, Information and Communication Enginners),
    1994, VOL.94,NO.342(HC94 63-70), PAGE.23-30, FIG.13, TBL.1, REF.4
JOURNAL NUMBER: S0532BBG
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:165   681.3:621.397.3
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

An algorithm for extraction of dotted- line **and designed-** line **using
Hough transform.**
...ABSTRACT: hints" about the document structure. This report describes an
    algorithm for extraction of arbitrary rules, **lines** and
    field-separators in document images. The local Hough transform is used
    for detecting **line** segments of the rules, and the auto-correlation
    function is used for separating **lines** and rules from **character
    strings** . The algorithm makes it possible to detect and extract, not
    only solid **lines** , but dotted **lines** , dashed **lines** or chain **lines**
    . Many kinds of decorated field-separators can also be extracted.
    (author abst.)
...DESCRIPTORS: **feature** extraction...

... **pixel** ;

 54/3,K/19   (Item 11 from file: 94)

00988430   JICST ACCESSION NUMBER: 90A0095083   FILE SEGMENT: JICST-E
Extraction of string patterns from illustration of parts.
TAKEDA HARUO (1); ONO YUJIRO (2)
(1) Hitachi, Ltd., System Development Lab.; (2) HITACHIKEIYOENJINIARINGU

ABSTRACT: An algorithm of extracting **character** and **string** patterns from
    illustration of parts is presented. The process of labeling to **picture
    elements** and the process of extracting elements by using the labels
    are repeated to extract characters...

...process to use the string informations. This algorithm enables the
    extraction of characters touched by **lines** or other characters. It
    prohibits the extraction of parts similar to characters. The
    application to...
...DESCRIPTORS: **feature** extraction...

... **pixel** ;

 54/3,K/20   (Item 1 from file: 144)

    12837358   PASCAL No.: 97-0056953
    Shape **recognition by human-like trial and error random processes**
    **Studies in pattern recognition   A memorial to the Late Professor King-Sun·
Fu**   .
  NAGAO M
  FREEMAN Herbert, ed
  Department of Electrical Engineering, Kyoto University, Yoshida-honmachi,
Sakyo-ku, Kyoto 606, Japan
  Rutgers University, Piscataway, NJ, United States

    Shape **recognition by human-like trial and error random processes**
    ... description of every detail of the objects to be recognized by
bottom-up process from **pixel** -to- **pixel** relation to **line** , corner, and
structural description. Because this low-level process does not see global
information, **feature** detection is highly sensitive to noise. To overcome
this problem and to give human-like flexibility to machine recognition
process, we developed a new· system which had non-algorithmic **feature**
detection functions by seeing a comparatively large area at once. It uses a
variable size...

... in an image by a top-down command from an object model, and obtains

characteristic **features** of object parts. This window application is realized mostly in hardware, and has some autonomic ability to detect the best **features** by a sort of random trial and error search. The system has some other hardware...

... user's declarative description of objects, and activates the window application functions to obtain characteristic **features** of the description. This new flexible approach of object detection can be used as a robot eye to recognize many simple two-dimensional **shapes** .

English Descriptors: Image processing; Pattern recognition; Image recognition; Noisy image; **Character** recognition; **Character** **string** ; Chinese; Pattern extraction; Error correction

54/3,K/21 **(Item 1 from file: 583)**
DIALOG(R)File 583:Gale Group Globalbase(TM)
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04394027
CALYPSO SOFTWARE APPOINTS QBS AS DISTRIBUTOR
 UK - CALYPSO SOFTWARE APPOINTS QBS AS DISTRIBUTOR
PC Business World (PCB)   9 July 1991 p8
ISSN: 0266-8483

... Clipper graphics library. The library offers a full graphical interface for the Clipper compiler and **features** low level functions such as **pixel** graphics for circles, fills, bitblits, **lines** and boxes along with high level fuctions for Windows-type environments, which include mouse-controlled...

...icons, pulldown menus, and bitmapped graphics on 16 and 256 colour video systems. It also **features** a font editor and icon editor written in Clipper. Simulataneous, unlimted multiple fonts may be...

...logos, animation effects or the creation of graphical menus by cnversion to buttons. The Clipper **character** **strings** handle bitmaps, allowing bitmap data access to the Clipper language. The package, including technical documentation...
?

62/3,K/1   (Item 1 from file: 2)
DIALOG(R)File   2:INSPEC

01594695   INSPEC Abstract Number: C74002632
 Title: A pseudo-language for creating CAI programs on APL systems
  Author(s): Gucker, E.J.
  Author Affiliation: State Univ. New York Coll., Brockport, NY, USA
  Journal: AEDS Journal   vol.6, no.4   p.120-6
  Publication Date: Summer 1973 Country of Publication: USA
  CODEN: AEDSAV ISSN: 0001-1037
  Language: English
  Subfile: C

   Abstract: The main **features** of the system include: 1) automatic
registration of students, with automatic restart of a previously registered
student at an appropriate point in the program, 2) **character string**
 manipulations including **character** editing, key letter **searching** and
 word matching, 3) provision for feedback messages to the student
generated by correct, incorrect or unanticipated...

62/3,K/2   (Item 1 from file: 6)
DIALOG(R)File   6:NTIS

0690043 NTIS Accession Number: ED-144 612/XAB
  File Design for the Search System, 3RIP
  Larsson, R.
  Royal Inst. of Tech., Stockholm (Sweden). Library.
  Report No.: TRITA-LIB-4042
  Mar 75   41p
  Document Type: Bibliography
  Journal Announcement: GRAI7813
  For related documents, see IR-005 261 and IR-005 263.
  Available from ERIC Document Reproduction Service, Bethesda, Md. 20014,
 PC$2.06, MF$0.83 Plus Postage.
  NTIS Prices: Not available NTIS

   ... million records containing on the order of 10-E9 characters of text
and numeric data. **Searchable** attributions are **keywords** , **words** or
phrases in text, names, and **character strings** , as well as **values** of
numeric attributes. File updating costs can be estimated at 0.01-0.02
Swedish...

62/3,K/3   (Item 1 from file: 34)
DIALOG(R)File   34:SciSearch(R) Cited Ref Sci

11108832   Genuine Article#: 608KY   No. References: 53
Title: Lexicon-driven segmentation and recognition of handwritten
    character   strings **for Japanese address reading**
Author(s): Liu CL (REPRINT) ; Koga M; Fujisawa H
Corporate Source: Hitachi Ltd,Cent Res Lab,1-280 Higashi
    Koigakubo/Kokubunji/Tokyo 1858601/Japan/ (REPRINT); Hitachi Ltd,Cent
    Res Lab,Kokubunji/Tokyo 1858601/Japan/
Journal: IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE,
    2002, V24, N11 (NOV), P1425-1437
ISSN: 0162-8828   Publication date: 20021100

Title: **Lexicon-driven segmentation and recognition of handwritten**
    character   strings **for Japanese address reading**
Abstract: This paper describes a handwritten **character   string**
    recognition system for Japanese mail address reading on very large
    vocabulary. The address phrases are...

...separated into primitive segments by connected component analysis and
    touching pattern splitting based on contour **shape** analysis. In
    lexicon matching, consecutive segments are dynamically combined into
    candidate character patterns. An accurate...
...Identifiers--CONNECTED **WORD** RECOGNITION; ALGORITHM; STRATEGIES;
    SEARCH

 62/3,K/4   (Item 2 from file: 34)

Title: **Lexical processes and eye movements in neglect dyslexia**
Author(s): di Pellegrino G; Ladavas E; Galletti C
Corporate Source: Univ Wales,Sch Psychol,Bangor LL57 2DG/Gwynedd/Wales/;
    Univ Bologna,Dept Psychol,Bologna//Italy/; Univ Bologna,Inst
    Physiol,Bologna//Italy/

...Abstract: non-word strings. Moreover, we also found that F.C. failed to
    identify the left **letters** of a **string** despite having fixated them,
    thus showing a clear dissociation between eye movement responses and
    conscious...

...interactions between lexical, attentional and eye movement systems that
    occur from very initial stages of **visual** word recognition.
...Identifiers-- **VISUAL** -ATTENTION; UNILATERAL NEGLECT; SPATIAL ATTENTION;
    FIXATION LOCATIONS; LETTER STRINGS; RECOGNITION; MECHANISMS; **SEARCH;**
    WORDS; LINE

 62/3,K/5   (Item 1 from file: 94)

Multimedia Communication Systems. A TV Program Selection Support Agent with
    History Database.
TAKA TOMOYA (1); WATANABE TAKASHI (2); TARUGUCHI HIDEAKI (3)
(1) Shizuoka Univ., Graduate School of Sci. and Engineering, JPN; (2)
    Shizuoka Univ., Fac. of Information; (3) Yamaha Corp.

DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

...ABSTRACT: keywords, and lists up the results with recommendation
    ranking. To evaluate the effect of inputted **keywords** on **search**
    results, we classify user-inputted keywords by the relation to the
    information in history, and compare the quality of **search** results
    derived from **keywords** in each class. We also improve Testa so that it
    can retrieve programs even if a user doesn't input any keyword, and
    examine the performance of this **feature** . (author abst.)
...DESCRIPTORS: **character   string** ;

  62/3,K/6   (Item 2 from file: 94)

04407063   JICST ACCESSION NUMBER: 99A0938145 FILE SEGMENT: JICST-E
An Algorithm of Character   String **Search in Document Images.**
NAKANISHI TAIGA (1)
(1) Tohoku Univ.
Tohoku Daigaku Dentsu Danwakai Kiroku(Record of Electrical and
    Communication Engineering Conversazione, Tohoku University), 1999,
    VOL.68,NO.1, PAGE.257-258, FIG.2, REF.4
JOURNAL NUMBER: F0511AAU   ISSN NO: 0385-7719
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:621.397.3   681.3:165   002.5:005
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication

An Algorithm of Character   String **Search in Document Images.**
ABSTRACT: The **keyword   search** in document images after preprocessing of
    recognition has problems such as missing keyword caused by...

...time for preprocessing of recognition. To deal with these problems, we
    propose a high precision **keyword   search** system that uses **feature**
    vectors of images in the comparing process, without any recognition in
    advance. According to our...
...DESCRIPTORS: **character   string** ; ...

... **feature** extraction

  62/3,K/7   (Item 3 from file: 94)

02711328   JICST ACCESSION NUMBER: 96A0433662 FILE SEGMENT: JICST-E
A Word -**Sequence** Search **Algorithm for a Hand-Written Character Reader.**
FUKUSHIMA TOSHIKAZU (1); SHIMOMURA HIDEKI (1); MORI YOSHIKAZU (2)
(1) NEC Corp.; (2) NECJohoshisutemuzu
Joho Shori Gakkai Ronbunshi(Transactions of Information Processing Society
    of Japan), 1996, VOL.37,NO.4, PAGE.500-510, FIG.7, TBL.2, REF.21
JOURNAL NUMBER: Z0778AAZ   ISSN NO: 0387-5806
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:165
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper

A Word -Sequence Search **Algorithm for a Hand-Written Character Reader.**
...ABSTRACT: algorithm for post-processing in a hand-written character
   reader. Hand-written characters have such **characteristics** as various
   styles, irregularity in size and pitch, frequency of character
   overlapping, and so on. These **characteristics** bring difficulty into
   hand-written character reading systems. Post-processing to correct
   mis-segmentation and...
...DESCRIPTORS: **character   string**

 62/3,K/8   **(Item 4 from file: 94)**
DIALOG(R)File 94:JICST-EPlus
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01723592   JICST ACCESSION NUMBER: 93A0410547 FILE SEGMENT: JICST-E
Handwritten Compound-word Recognition Using the Best Word **Combination**
   Searching .
OGURO MASAMI (1); NAKAMURA OSAMU (1); MIZUGAKI AKIO (1); KITAMURA TADASHI
   (1)
(1) Nippon Telegraph & Telephone Corp., Human Interface Lab.
NTT R D, 1993, VOL.42,NO.4, PAGE.557-564, FIG.6, TBL.1, REF.9
JOURNAL NUMBER: F0137ACY   ISSN NO: 0915-2326
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:165
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

Handwritten Compound-word Recognition Using the Best Word **Combination**
   Searching .
...ABSTRACT: searching. We reduce the dictionary search time by using
   hypothetical word segmentation based on character **shape   features**
   and best-first **searching** with compatibility between **word** and
   character candidates. Experiments show that the number of searches is
   proportional to the string...
...DESCRIPTORS: **character   string**

 62/3,K/9   **(Item 1 from file: 144)**
DIALOG(R)File 144:Pascal
(c) 2005 INIST/CNRS. All rts. reserv.

  16548548   PASCAL No.: 04-0196517
  FindStem: Analysis and evaluation of a Turkish stemming algorithm
  SPIRE 2003 : string processing and information retrieval : Manaus, 8-10
October 2003
  SEVER Hayri; BITIRIM Yiltan
  NASCIMENTO Mario A, ed; DE MOURA Edleno S, ed; OLIVEIRA Arlindo L, ed
  Department of Computer Engineering, Baskent University, Ankara, 06530,
Turkey; Department of Computer Engineering, Eastern Mediterranean
University Famagusta, T.R.N.C., via Mersin 10, Turkey
  International symposium on string processing and information retrieval,
10 (Manaus BRA) 2003-10-08
  Journal: Lecture notes in computer science, 2003, 2857 238-251
  Language: English

... records with 280K document words, 15 queries in natural language with average length of 17 **search** **words** , and a complete relevancy information for each query, was used for the effectiveness of the...

... algorithm (FINDSTEM), and a Turkish translation at message level. Our results based on average precision **values** at 11-point recall levels shows that indexing document as well as search terms with...

English Descriptors: **Character** **string** ; Word; Query language; Natural
language; Information use; Indexing; Word length; Stemming

62/3,K/10 **(Item 2 from file: 144)**
DIALOG(R)File 144:Pascal
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16092040 PASCAL No.: 03-0249396
Word searching **in document images using word portion matching**
DAS 2002 : document analysis systems V : Princeton NJ, 19-21 August 2002
YUE LU; CHEW LIM TAN
LOPRESTI Daniel, ed; JIANYING HU, ed; KASHI Ramanujan, ed
Department of Computer Science, School of Computing National University
of Singapore, Kent Ridge, Singapore 117543, Singapore
IAPR workshop on document analysis systems, 5 (Princeton NJ USA)
2002-08-19
Journal: Lecture notes in computer science, 2002, 2423 319-328
Language: English

Word searching **in document images using word portion matching**
An approach with the capability of **searching** a **word** portion in document images is proposed in this paper, to facilitate the detection and location of the user-specified query words. A **feature** string is synthesized according to the character sequence in the user-specified word, and each word image extracted from documents are represented by a **feature** string. Then, an inexact string matching technology is utilized to measure the similarity between the two **feature** strings, based on which we can estimate how the document word image is relevant to...

English Descriptors: String matching; Word; Image matching; **Character**
string ; Graphic document; Document analysis; Optical character
recognition; Character recognition
?